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Seq ID NO: 100 DNA sequence
Nucleic Acid Accession #: NM_000673
Coding sequence: 101-1225

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1          11         21         31         41         51
|          |          |          |          |          |
ATGTGAAGGC ACAAGCTGCT GTTATATACA ACAGAGTGAA CTGAGCATCA GTCAGAAAAA    60
GTCTATGTTT GCAGAAATAC AGATCCAAGA CAAAGACAGG ATGGGCACTG CTGGAAAAGT   120
TATTAAATGC AAAGCAGCTG TGCTTTGGGA GCAGAAGCAA CCCTTCTCCA TTGAGGAAAT   180
AGAAGTTGCC CCACCAAAGA CTAAAGAAGT TCGCATTAAG ATTTTGGCCA CAGGAATCTG   240
TCGCACAGAT GACCATGTGA TAAAAGGAAC AATGGTGTCC AAGTTTCCAG TGATTGTGGG   300
ACATGAGGCA ACTGGGATTG TAGAGAGCAT TGGAGAAGGA GTGACTACAG TGAAACCAGG   360
TGACAAAGTC ATCCCTCTCT TTCTGCCACA ATGTAGAGAA TGCAATGCTT GTCGCAACCC   420
AGATGGCAAC CTTTGCATTA GGAGCGATAT TACTGGTCGT GGAGTACTGG CTGATGGCAC   480
CACCAGATTT ACATGCAAGG GCAAACCAGT ACACCACTTC ATGAACACCA GTACATTTAC   540
CGAGTACACA GTGGTGGATG AATCTTCTGT TGCTAAGATT GATGATGCAG CTCCTCCTGA   600
GAAAGTCTGT TTAATTGGCT GTGGGTTTTC CACTGGATAT GGCGCTGCTG TTAAAACTGG   660
CAAGGTCAAA CCTGGTTCCA CTTGCGTCGT CTTTGGCCTG GGAGGAGTTG GCCTGTCAGT   720
CATCATGGGC TGTAAGTCAG CTGGTGCATC TAGGATCATT GGGATTGACC TCAACAAAGA   780
CAAATTTGAG AAGGCCATGG CTGTAGGTGC CACTGAGTGT ATCAGTCCCA AGGACTCTAC   840
CAAACCCATC AGTGAGGTGC TGTCAGAAAT GACAGGCAAC AACGTGGGAT ACACCTTTGA   900
AGTTATTGGG CATCTTGAAA CCATGATTGA TGCCCTGGCA TCCTGCCACA TGAACTATGG   960
GACCAGCGTG GTTGTAGGAG TTCCTCCATC AGCCAAGATG CTCACCTATG ACCCGATGTT  1020
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GCTCTTCACT GGACGCACAT GGAAGGGATG TGTCTTTGGA GGTTTGAAAA GCAGAGATGA  1080
TGTCCCAAAA CTAGTGACTG AGTTCCTGGC AAAGAAATTT GACCTGGACC AGTTGATAAC  1140
TCATGTTTTA CCATTTAAAA AAATCAGTGA AGGATTTGAG CTGCTCAATT CAGGACAAAG  1200
CATTCGAACG GTCCTGACGT TTTGAGATCC AAAGTGGCAG GAGGTCTGTG TTGTCATGGT  1260
GAACTGGAGT TTCTCTTGTG AGAGTTCCCT CATCTGAAAT CATGTATCTG TCTCACAAAT  1320
ACAAGCATAA GTAGAAGATT TGTTGAAGAC ATAGAACCCT TATAAAGAAT TATTAACCTT  1380
TATAAACATT TAAAGTCTTG TGAGCACCTG GGAATTAGTA TAATAACAAT GTTAATATTT  1440
TTGATTTACA TTTTGTAAGG CTATAATTGT ATCTTTTAAG AAAACATACA CTTGGATTTC  1500
TATGTTGAAA TGGAGATTTT TAAGAGTTTT AACCAGCTGC TGCAGATATA TAACTCAAAA  1560
CAGATATAGC GTATAAAGAT ATAGTAAATG CATCTCCCAG AGTAATATTC ACTTAACACA  1620
TTGAAACTAT TATTTTTTAG ATTTGAATAT AAATGTATTT TTTAAACACT TGTTATGAGT  1680
TAACTTGGAT TACATTTTGA AATCAGTTCA TTCCATGATG CATATTACTG GATTAGATTA  1740
AGAAAGACAG AAAAGATTAA GGGACGGGCA CATTTTTCAA CGATTAAGAA TCATCATTAC  1800
ATAACTTGGT GAAACTGAAA AAGTATATCA TATGGGTACA CAAGGCTATT TGCCAGCATA  1860
TATTAATATT TTAGAAAATA TTCCTTTTGT AATACTGAAT ATAAACATAG AGCTAGAGTC  1920
ATATTATCAT ACTTATCATA ATGTTCAATT TGATACAGTA GAATTGCAAG TCCCTAAGTC  1980
CCTATTCACT GTGCTTAGTA GTGACTCCAT TTAATAAAAA GTGTTTTTAG TTTTTAACAA  2040
CTAAACCG
```

Seq ID NO: 101 Protein sequence:
Protein Accession #: NP_000664

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1           11          21          31          41          51
|           |           |           |           |           |
MGTAGKVIKC KAAVLWEQKQ PFSIEEIEVA PPKTKEVRIK ILATGICRTD DHVIKGTMVS    60
KFPVIVGHEA TGIVESIGEG VTTVKPGDKV IPLFLPQCRE CNACRNPDGN LCIRSDITGR   120
GVLADGTTRF TCKGKPVHHF MNTSTFTEYT VVDESSVAKI DDAAPPEKVC LIGCGFSTGY   180
GAAVKTGKVK PGSTCVVFGL GGVGLSVIMG CKSAGASRII GIDLNKDKFE KAMAVGATEC   240
ISPKDSTKPI SEVLSEMTGN NVGYTFEVIG HLETMIDALA SCHMNYGTSV VVGVPPSAKM   300
LTYDPMLLFT GRTWKGCVFG GLKSRDDVPK LVTEFLAKKF DLDQLITHVL PFKKISEGFE   360
LLNSGQSIRT VLTF
```

Seq ID NO: 102 DNA sequence
Nucleic Acid Accession #: NM_006783.1
Coding sequence: 1..786

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1           11          21          31          41          51
|           |           |           |           |           |
ATGGATTGGG GGACGCTGCA CACTTTCATC GGGGGTGTCA ACAAACACTC CACCAGCATC    60
GGGAAGGTGT GGATCACAGT CATCTTTATT TTCCGAGTCA TGATCCTAGT GGTGGCTGCC   120
CAGGAAGTGT GGGGTGACGA GCAAGAGGAC TTCGTCTGCA ACACACTGCA ACCGGGATGC   180
AAAAATGTGT GCTATGACCA CTTTTTCCCG GTGTCCCACA TCCGGCTGTG GGCCCTCCAG   240
CTGATCTTCG TCTCCACCCC AGCGCTGCTG GTGGCCATGC ATGTGGCCTA CTACAGGCAC   300
GAAACCACTC GCAAGTTCAG GCGAGGAGAG AAGAGGAATG ATTTCAAAGA CATAGAGGAC   360
ATTAAAAAGC ACAAGGTTCG GATAGAGGGG TCGCTGTGGT GGACGTACAC CAGCAGCATC   420
TTTTTCCGAA TCATCTTTGA AGCAGCCTTT ATGTATGTGT TTTACTTCCT TTACAATGGG   480
TACCACCTGC CCTGGGTGTT GAAATGTGGG ATTGACCCCT GCCCCAACCT TGTTGACTGC   540
TTTATTTCTA GGCCAACAGA GAAGACCGTG TTTACCATTT TTATGATTTC TGCGTCTGTG   600
ATTTGCATGC TGCTTAACGT GGCAGAGTTG TGCTACCTGC TGCTGAAAGT GTGTTTTAGG   660
AGATCAAAGA GAGCACAGAC GCAAAAAAAT CACCCCAATC ATGCCCTAAA GGAGAGTAAG   720
CAGAATGAAA TGAATGAGCT GATTTCAGAT AGTGGTCAAA ATGCAATCAC AGGTTTCCCA   780
AGCTAA
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Seq ID NO: 103 Protein sequence:
Protein Accession #: NP_006774.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MDWGTLHTFI GGVNKHSTSI GKVWITVIFI FRVMILVVAA QEVWGDEQED FVCNTLQPGC    60
KNVCYDHFFP VSHIRLWALQ LIFVSTPALL VAMHVAYYRH ETTRKFRRGE KRNDFKDIED   120
IKKHKVRIEG SLWWTYTSSI FFRIIFEAAF MYVFYFLYNG YHLPWVLKCG IDPCPNLVDC   180
FISRPTEKTV FTIFMISASV ICMLLNVAEL CYLLLKVCFR RSKRAQTQKN HPNHALKESK   240
QNEMNELISD SGQNAITGFP S
```

Seq ID NO: 104 DNA sequence
Nucleic Acid Accession #: NM_020411
Coding sequence: 86-526

```
1           11          21          31          41          51
|           |           |           |           |           |
GGACCTGGGA AGGAGCATAG GACAGGGCAA GGCGGGATAA GGAGGGGCAC CACAGCCCTT    60
AAGGCACGAG GGAACCTCAC TGCGCATGCT CCTTTGGTGC CCACCTCAGT GCGCATGTTC   120
ACTGGGCGTC TTCCCATCGG CCCCTTCGCC AGTGTGGGGA ACGCGGCGGA GCTGTGAGCC   180
GGCGACTCGG GTCCCTGAGG TCTGGATTCT TTCTCCGCTA CTGAGACACG GCGGACACAC   240
ACAAACACAG AACCACACAG CCAGTCCCAG GAGCCCAGTA ATGGAGAGCC CCAAAAAGAA   300
GAACCAGCAG CTGAAAGTCG GGATCCTACA CCTGGGCAGC AGACAGAAGA AGATCAGGAT   360
ACAGCTGAGA TCCCAGTGCG CGACATGGAA GGTGATCTGC AAGAGCTGCA TCAGTCAAAC   420
ACCGGGGATA AATCTGGATT TGGGTTCCGG CGTCAAGGTG AAGATAATAC CTAAAGAGGA   480
ACACTGTAAA ATGCCAGAAG CAGGTGAAGA GCAACCACAA GTTTAAATGA AGACAAGCTG   540
AAACAACGCA AGCTGGTTTT ATATTAGATA TTTGACTTAA ACTATCTCAA TAAAGTTTTG   600
CAGCTTTCAC CAAAAAAAAA AAAAAA
```

Seq ID NO: 105 Protein sequence:
Protein Accession #: NP_065144.1

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1           11          21          31          41          51
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|          |          |          |          |          |
MLLWCPPQCA CSLGVFPSAP SPVWGTRRSC EPATRVPEVW ILSPLLRHGG HTQTQNHTAS    60
PRSPVMESPK KKNQQLKVGI LHLGSRQKKI RIQLRSQCAT WKVICKSCIS QTPGINLDLG   120
SGVKVKIIPK EEHCKMPEAG EEQPQV
```

Seq ID NO: 106 DNA sequence
Nucleic Acid Accession #: J04129
Coding sequence: 99-587

```
1          11         21         31         41         51
|          |          |          |          |          |
CATCCCTCTG GCTCCAGAGC TCAGAGCCAC CCACAGCCGC AGCCATGCTG TGCCTCCTGC    60
TCACCCTGGG CGTGGCCCTG GTCTGTGGTG TCCCGGCCAT GGACATCCCC CAGACCAAGC   120
AGGACCTGGA GCTCCCAAAG TTGGCAGGGA CCTGGCACTC CATGGCCATG GCGACCAACA   180
ACATCTCCCT CATGGCGACA CTGAAGGCCC CTCTGAGGGT CCACATCACC TCACTGTTGC   240
CCACCCCCGA GGACAACCTG GAGATCGTTC TGCACAGATG GGAGAACAAC AGCTGTGTTG   300
AGAAGAAGGT CCTTGGAGAG AAGACTGGGA ATCCAAAGAA GTTCAAGATC AACTATACGG   360
TGGCGAACGA GGCCACGCTG CTCGATACTG ACTACGACAA TTTCCTGTTT CTCTGCCTAC   420
AGGACACCAC CACCCCCATC CAGAGCATGA TGTGCCAGTA CCTGGCCAGA GTCCTGGTGG   480
AGGACGATGA GATCATGCAG GGATTCATCA GGGCTTTCAG GCCCCTGCCC AGGCACCTAT   540
GGTACTTGCT GGACTTGAAA CAGATGGAAG AGCCGTGCCG TTTCTAGCTC ACCTCCGCCT   600
CCAGGAAGAC CAGACTCCCA CCCTTCCACA CCTCCAGAGC AGTGGGACTT CCTCCTGCCC   660
TTTCAAAGAA TAACCACAGC TCAGAAGACG ATGACGTGGT CATCTGTGTC GCCATCCCCT   720
TCCTGCTGCA CACCTGCACC ATTGCCATGG GGAGGCTGCT CCCTGGGGGC AGAGTCTCTG   780
GCAGAGGTTA TTAATAAACC CTTGGAGCAT G
```

Seq ID NO: 107 Protein sequence:
Protein Accession #: AAA60147

```
1          11         21         31         41         51
|          |          |          |          |          |
MDIPQTKQDL ELPKLAGTWH SMAMATNNIS LMATLKAPLR VHITSLLPTP EDNLEIVLHR    60
WENNSCVEKK VLGEKTGNPK KFKINYTVAN EATLLDTDYD NFLFLCLQDT TTPIQSMMCQ   120
YLARVLVEDD EIMQGFIRAF RPLPRHLWYL LDLKQMEEPC RF
```

Seq ID NO: 108 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 48-794

```
1          11         21         31         41         51
|          |          |          |          |          |
TCCCAGGCAG CAGTTAGCCC GCCGCCCGCC TGTGTGTCCC CAGAGCCATG GAGAGAGCCA    60
GTCTGATCCA GAAGGCCAAG CTGGCAGAGC AGGCCGAACG CTATGAGGAC ATGGCAGCCT   120
TCATGAAAGG CGCCGTGGAG AAGGGCGAGG AGCTCTCCTG CGAAGAGCGA AACCTGCTCT   180
CAGTAGCCTA TAAGAACGTG GTGGGCGGCC AGAGGGCTGC CTGGAGGGTG CTGTCCAGTA   240
TTGAGCAGAA AAGCAACGAG GAGGGCTCGG AGGAGAAGGG GCCCGAGGTG CGTGAGTACC   300
GGGAGAAGGT GGAGACTGAG CTCCAGGGCG TGTGCGACAC CGTGCTGGGC CTGCTGGACA   360
GCCACCTCAT CAAGGAGGCC GGGGACGCCG AGAGCCGGGT CTTCTACCTG AAGATGAAGG   420
GTGACTACTA CCGCTACCTG GCCGAGGTGG CCACCGGTGA CGACAAGAAG CGCATCATTG   480
ACTCAGCCCG GTCAGCCTAC CAGGAGGCCA TGGACATCAG CAAGAAGGAG ATGCCGCCCA   540
CCAACCCCAT CCGCCTGGGC CTGGCCCTGA ACTTTTCCGT CTTCCACTAC GAGATCGCCA   600
ACAGCCCCGA GGAGGCCATC TCTCTGGCCA AGACCACTTT CGACGAGGCC ATGGCTGATC   660
TGCACACCCT CAGCGAGGAC TCCTACAAAG ACAGCACCCT CATCATGCAG CTGCTGCGAG   720
ACAACCTGAC ACTGTGGACG GCCGACAACG CCGGGGAAGA GGGGGGCGAG GCTCCCCAGG   780
AGCCCCAGAG CTGAGTGTTG CCCGCCACCG CCCCGCCCTG CCCCCTCCAG TCCCCCACCC   840
TGCCGAGAGG ACTAGTATGG GGTGGGAGGC CCCACCCTTC TCCCCTAGGC GCTGTTCTTG   900
CTCCAAAGGG CTCCGTGGAG AGGGACTGGC AGAGCTGAGG CCACCTGGGG CTGGGGATCC   960
CACTCTTCTT GCAGCTGTTG AGCGCACCTA ACCACTGGTC ATGCCCCCAC CCCTGCTCTC  1020
CGCACCCGCT TCCTCCCGAC CCCAGGACCA GGCTACTTCT CCCCTCCTCT TGCCTCCCTC  1080
CTGCCCCTGC TGCCTCTGAT CGTAGGAATT GAGGAGTGTC CCGCCTTGTG GCTGAGAACT  1140
GGACAGTGGC AGGGGCTGGA GATGGGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG  1200
CGCGCGCGCC AGTGCAAGAC CGAGATTGAG GGAAAGCATG TCTGCTGGGT GTGACCATGT  1260
TTCCTCTCAA TAAAGTTCCC CTGTGACACT C
```

Seq ID NO: 109 Protein sequence:
Protein Accession #: NP_006133.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MERASLIQKA KLAEQAERYE DMAAFMKGAV EKGEELSCEE RNLLSVAYKN VVGGQRAAWR    60
VLSSIEQKSN EEGSEEKGPE VREYREKVET ELQGVCDTVL GLLDSHLIKE AGDAESRVFY   120
LKMKGDYYRY LAEVATGDDK KRIIDSARSA YQEAMDISKK EMPPTNPIRL GLALNFSVFH   180
YEIANSPEEA ISLAKTTFDE AMADLHTLSE DSYKDSTLIM QLLRDNLTLW TADNAGEEGG   240
EAPQEPQS
```

Seq ID NO: 110 DNA sequence
Nucleic Acid Accession #: NM_000695
Coding sequence: 407-1564

```
1          11         21         31         41         51
|          |          |          |          |          |
CACGAGTTGG TTTGGGAGCT GCCAGTCTCC TGGGAGGATC GCAGTCAGCA GAGCAGGGCT    60
GAGGCCTGGG GGTAGGAGCA GAGCCTGCGC ATCTGGAGGC AGCATGTCCA AGAAAGGGAG   120
TGGAGGTGCA GCGAAGGACC CAGGGGCAGA GCCCACGCTG GGGATGGACC CCTTCGAGGA   180
CACACTGCGG CGGCTGCGTG AGGCCTTCAA CTGAGGGCGC ACGCGGCCGG CCGAGTTCCG   240
GGCTGCGCAG CTCCAGGGCC TGGGCCACTT CCTTCAAGAA AACAAGCAGC TTCTGCGCGA   300
```

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CGTGCTGGCC CAGGACCTGC ATAAGCCAGC TTTCGAGGCA GACATATCTG AGCTCATCCT   360
TTGCCAGAAC GAGGTTGACT ACGCTCTCAA GAACCTTCAG GCCTGGATGA AGGATGAACC   420
ACGGTCCACG AACCTGTTCA TGAAGCTGGA CTCGGTCTTC ATCTGGAAGG AACCCTTTGG   480
CCTGGTCCTC ATCATCGCAC CCTGGAACTA CCCATTGAAC CTGACCCTGG TGCTCCTGGT   540
GGGCACCCTC CCCGCAGGGA ATTGCGTGGT GCTGAAGCCG TCAGAAATCA GCCAGGGCAC   600
AGAGAAGGTC CTGGCTGAGG TGCTGCCCCA GTACCTGGAC CAGAGCTGCT TTGCCGTGGT   660
GCTGGGCGGA CCCCAGGAGA CAGGGCAGCT GCTAGAGCAC AAGTTGGACT ACATCTTCTT   720
CACAGGGAGC CCTCGTGTGG GCAAGATTGT CATGACTGCT GCCACCAAGC ACCTGACGCC   780
TGTCACCCTG GAGCTGGGGG GCAAGAACCC CTGCTACGTG GACGACAACT GCGACCCCCA   840
GACCGTGGCC AACCGCGTGG CCTGGTTCTG CTACTTCAAT GCCGGCCAGA CCTGCGTGGC   900
CCCTGACTAC GTCCTGTGCA GCCCCGAGAT GCAGGAGAGG CTGCTGCCCG CCCTGCAGAG   960
CACCATCACC CGTTTCTATG GCGACGACCC CCAGAGCTCC CCAAACCTGG GCCGCATCAT  1020
CAACCAGAAA CAGTTCCAGC GGCTGCGGGC ATTGCTGGGC TGCGGCCGCG TGGCCATTGG  1080
GGGCCAGAGC AACGAGAGCG ATCGCTACAT CGCCCCCACG GTGCTGGTGG ACGTGCAGGA  1140
GACGGAGCCT GTGATGCAGG AGGAGATCTT CGGGCCCATC CTGCCCATCG TGAACGTGCA  1200
GAGCGTGGAC GAGGCCATCA AGTTCATCAA CCGGCAGGAG AAGCCCCTGG CCCTGTACGC  1260
CTTCTCCAAC AGCAGACAGG TTGTGAACCA GATGCTGGAG CGGACCAGCA GCGGCAGCTT  1320
TGGAGGCAAT GAGGGCTTCA CCTACATATC TCTGCTGTCC GTGCCATTCG GGGGAGTCGG  1380
CCACAGTGGG ATGGGCCGGT ACCACGGCAA GTTCACCTTC GACACCTTCT CCCACCACCG  1440
CACCTGCCTG CTCGCCCCCT CCGGCCTGGA GAAATTAAAG GAGATCCGCT ACCCACCCTA  1500
TACCGACTGG AACCAGCAGC TGTTACGCTG GGGCATGGGC TCCCAGAGCT GCACCCTCCT  1560
GTGAGCGTCC CACCCGCCTC CAACGGGTCA CACAGAGAAA CCTGAGTCTA GCCATGAGGG  1620
GCTTATGCTC CCAACTCACA TTGTTCCTCC AGACCGCAGG CTCCCCCAGC CTCAGGTTGC  1680
TGGAGCTGTC ACATGACTGC ATCCTGCCTG CCAGGGCTGC AAAGCAAGGT CTTGCTTCTA  1740
TCTGGGGGAC GCTGCTCGAG AGAGGCCGAG AGGCCGCAGA ACATGCCAGG TGTCCTCACT  1800
CACCCCACCC TCCCCAATTC CAGCCCTTTG CCCTCTCGGT CAGGGTTGGC CAGGCCCAGT  1860
CACAGGGGCA GTGTCACCCT GGAAAATACA GTGCCCTGCC TTCTTAGGGG CATCAGCCCT  1920
GAACGGTTGA GAGCGTGGAG CCCTCCAGGC CTTTGCTCTC CCCTCTAGGC ACACGCGCAC  1980
TTCCACCTCT GCCCCATCCC AACTGCACCA GCACTGCCTC CCCCAGGGAT CCTCTCACAT  2040
CCCACACTGG TCTCTGCACC ACCCCTCTGG TTCACACCGC ACCCTGCACT CACCCACAGC  2100
AGCTCCATCC ACTGGGAAAA CTGGGGTTTG CATCACTCCA CTGCACAGTG TTAGTGGGAC  2160
CTGGGGGCAA GTCCCTTGAC TTCTCTGAGC CTCAGTTTCC TTATGTGAAA GTTGCTGGAA  2220
CCAAAATGGA GTCACTTATG CCAAACTCTA ATAAAATGGA GTCGGGGGGG CACATAGAAG  2280
CCCTCACACA CACATGCCCG TAACAGGATT TATCACCAAG ACACGCCTGC ATGTAAGACC  2340
AGACACAGGG CGTATGGAAA AGCACGTCCT CAAAGACTGT AGTATTCCAG ATGAGCTGCA  2400
GATGCTTACC TACCACGGCC GTCTCCACCA GAAAACCATC GCCAACTCCT GCGATCAGCT  2460
TGTGACTTAC AAACCTTGTT TAAAAGCTGC TTACATGGAC TTCTGTCCTT TAAAACGTTC  2520
CCCTTGGCTG TGGCCCTCTG TGTATGCCTG GGATCCTTCC AAGCACTCAT AGCCCAGATA  2580
GGAATCCTCT GCTCCTCCCA AATAAATTCA TCTGTTC
```

Seq ID NO: 111 Protein sequence:
Protein Accession #: NP_000686

```
1           11          21          31          41          51
|           |           |           |           |           |
MKDEPRSTNL FMKLDSVFIW KEPFGLVLII APWNYPLNLT LVLLVGTLPA GNCVVLKPSE    60
ISQGTEKVLA EVLPQYLDQS CFAVVLGGPQ ETGQLLEHKL DYIFFTGSPR VGKIVMTAAT   120
KHLTPVTLEL GGKNPCYVDD NCDPQTVANR VAWFCYFNAG QTCVAPDYVL CSPEMQERLL   180
PALQSTITRF YGDDPQSSPN LGRIINQKQF QRLRALLGCG RVAIGGQSNE SDRYIAPTVL   240
VDVQETEPVM QEEIFGPILP IVNVQSVDEA IKFINRQEKP LALYAFSNSR QVVNQMLERT   300
SSGSFGGNEG FTYISLLSVP FGGVGHSGMG RYHGKFTFDT FSHHRTCLLA PSGLEKLKEI   360
RYPPYTDWNQ QLLRWGMGSQ SCTLL
```

Seq ID NO: 112 DNA sequence
Nucleic Acid Accession #: NM_004456
Coding sequence: 58-2298

```
1           11          21          31          41          51
|           |           |           |           |           |
GAATTCCGGG CGACGCGCGG GAACAACGCG AGTCGGCGCG CGGGACGAAG AATAATCATG    60
GGCCAGACTG GGAAGAAATC TGAGAAGGGA CCAGTTTGTT GGCGGAAGCG TGTAAAATCA   120
GAGTACATGC GACTGAGACA GCTCAAGAGG TTCAGACGAG CTGATGAAGT AAAGAGTATG   180
TTTAGTTCCA ATCGTCAGAA AATTTTGGAA AGAACGGAAA TCTTAAACCA AGAATGGAAA   240
CAGCGAAGGA TACAGCCTGT GCACATCCTG ACTTCTGTGA GCTCATTGCG CGGGACTAGG   300
GAGTGTTCGG TGACCAGTGA CTTGGATTTT CCAACACAAG TCATCCCATT AAAGACTCTG   360
AATGCAGTTG CTTCAGTACC CATAATGTAT TCTTGGTCTC CCCTACAGCA GAATTTTATG   420
GTGGAAGATG AAACTGTTTT ACATAACATT CCTTATATGG GAGATGAAGT TTTAGATCAG   480
GATGGTACTT TCATTGAAGA ACTAATAAAA AATTATGATG GGAAAGTACA CGGGGATAGA   540
GAATGTGGGT TTATAAATGA TGAAATTTTT GTGGAGTTGG TGAATGCCCT TGGTCAATAT   600
AATGATGATG ACGATGATGA TGATGGAGAC GATCCTGAAG AAAGAGAAGA AAAGCAGAAA   660
GATCTGGAGG ATCACCGAGA TGATAAAGAA AGCCGCCCAC CTCGGAAATT TCCTTCTGAT   720
AAAATTTTGG AGGCCATTTC CTCAATGTTT CCAGATAAGG GCACAGCAGA AGAACTAAAG   780
GAAAAATATA AAGAACTCAC CGAACAGCAG CTCCCAGGCG CACTTCCTCC TGAATGTACC   840
CCCAACATAG ATGGACCAAA TGCTAAATCT GTTCAGAGAG AGCAAAGCTT ACACTCCTTT   900
CATACGCTTT TCTGTAGGCG ATGTTTTAAA TATGACTGCT TCCTACATCC TTTTCATGCA   960
ACACCCAACA CTTATAAGCG GAAGAACACA GAAACAGCTC TAGACAACAA ACCTTGTGGA  1020
CCACAGTGTT ACCAGCATTT GGAGGGAGCA AAGGAGTTTG CTGCTGCTCT CACCGCTGAG  1080
CGGATAAAGA CCCCACCAAA ACGTCCAGGA GGCCGCAGAA GAGGACGGCT TCCCAATAAC  1140
AGTAGCAGGC CCAGCACCCC CACCATTAAT GTGCTGGAAT CAAAGGATAC AGACAGTGAT  1200
AGGGAAGCAG GGACTGAAAC GGGGGGAGAG AACAATGATA AAGAAGAAGA AGAGAAGAAA  1260
GATGAAACTT CGAGCTCCTC TGAAGCAAAT TCTCGGTGTC AAACACCAAT AAAGATGAAG  1320
CCAAATATTG AACCTCCTGA GAATGTGGAG TGGAGTGGTG CTGAAGCCTC AATGTTTAGA  1380
GTCCTCATTG GCACTTACTA TGACAATTTC TGTGCCATTG CTAGGTTAAT TGGGACCAAA  1440
ACATGTAGAC AGGTGTATGA GTTTAGAGTC AAAGAATCTA GCATCATAGC TCCAGCTCCC  1500
GCTGAGGATG TGGATACTCC TCCAAGGAAA AAGAAGAGGA AACACCGGTT GTGGGCTGCA  1560
CACTGCAGAA AGATACAGCT GAAAAAGGAC GGCTCCTCTA ACCATGTTTA CAACTATCAA  1620
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CCCTGTGATC ATCCACGGCA GCCTTGTGAC AGTTCGTGCC CTTGTGTGAT AGCACAAAAT  1680
TTTTGTGAAA AGTTTTGTCA ATGTAGTTCA GAGTGTCAAA ACCGCTTTCC GGGATGCCGC  1740
TGCAAAGCAC AGTGCAACAC CAAGCAGTGC CCGTGCTACC TGGCTGTCCG AGAGTGTGAC  1800
CCTGACCTCT GTCTTACTTG TGGAGCCGCT GACCATTGGG ACAGTAAAAA TGTGTCCTGC  1860
AAGAACTGCA GTATTCAGCG GGGCTCCAAA AAGCATCTAT TGCTGGCACC ATCTGACGTG  1920
GCAGGCTGGG GGATTTTTAT CAAAGATCCT GTGCAGAAAA ATGAATTCAT CTCAGAATAC  1980
TGTGGAGAGA TTATTTCTCA AGATGAAGCT GACAGAAGAG GGAAAGTGTA TGATAAATAC  2040
ATGTGCAGCT TTCTGTTCAA CTTGAACAAT GATTTTGTGG TGGATGCAAC CCGCAAGGGT  2100
AACAAAATTC GTTTTGCAAA TCATTCGGTA AATCCAAACT GCTATGCAAA AGTTATGATG  2160
GTTAACGGTG ATCACAGGAT AGGTATTTTT GCCAAGAGAG CCATCCAGAC TGGCGAAGAG  2220
CTGTTTGTTG ATTACAGATA CAGCCAGGCT GATGCCCTGA AGTATGTCGG CATCGAAAGA  2280
GAAATGGAAA TCCCTTGACA TCTGCTACCT CCTCCCCCTC CTCTGAAACA GCTGCCTTAG  2340
CTTCAGGAAC CTCGAGTACT GTGGGCAATT TAGAAAAAGA ACATGCAGTT TGAAATTCTG  2400
AATTTGCAAA GTACTGTAAG AATAATTTAT AGTAATGAGT TTAAAAATCA ACTTTTTATT  2460
GCCTTCTCAC CAGCTGCAAA GTGTTTTGTA CCAGTGAATT TTTGCAATAA TGCAGTATGG  2520
TACATTTTTC AACTTTGAAT AAAGAATACT TGAACTTGAA AAAAAAAAAA AAAAAA
```

Seq ID NO: 113 Protein sequence:
Protein Accession #: NP_004447

```
1          11         21         31         41         51
|          |          |          |          |          |
MGQTGKKSEK GPVCWRKRVK SEYMRLRQLK RFRRADEVKS MFSSNRQKIL ERTEILNQEW    60
KQRRIQPVHI LTSVSSLRGT RECSVTSDLD FPTQVIPLKT LNAVASVPIM YSWSPLQQNF   120
MVEDETVLHN IPYMGDEVLD QDGTFIEELI KNYDGKVHGD RECGFINDEI FVELVNALGQ   180
YNDDDDDDDG DDPEEREEKQ KDLEDHRDDK ESRPPRKFPS DKILEAISSM FPDKGTAEEL   240
KEKYKELTEQ QLPGALPPEC TPNIDGPNAK SVQREQSLHS FHTLFCRRCF KYDCFLHPFH   300
ATPNTYKRKN TETALDNKPC GPQCYQHLEG AKEFAAALTA ERIKTPPKRP GGRRRGRLPN   360
NSSRPSTPTI NVLESKDTDS DREAGTETGG ENNDKEEEEK KDETSSSSEA NSRCQTPIKM   420
KPNIEPPENV EWSGAEASMF RVLIGTYYDN FCAIARLIGT KTCRQVYEFR VKESSIIAPA   480
PAEDVDTPPR KKKRKHRLWA AHCRKIQLKK DGSSNHVYNY QPCDHPRQPC DSSCPCVIAQ   540
NFCEKFCQCS SECQNRFPGC RCKAQCNTKQ CPCYLAVREC DPDLCLTCGA ADHWDSKNVS   600
CKNCSIQRGS KKHLLLAPSD VAGWGIFIKD PVQKNEFISE YCGEIISQDE ADRRGKVYDK   660
YMCSFLFNLN NDFVVDATRK GNKIRFANHS VNPNCYAKVM MVNGDHRIGI FAKRAIQTGE   720
ELFVDYRYSQ ADALKYVGIE REMEIP
```

Seq ID NO: 114 DNA sequence
Nucleic Acid Accession #: NM_001827
Coding sequence: 96-335

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1          11         21         31         41         51
|          |          |          |          |          |
AGTCTCCGGC GAGTTGTTGC CTGGGCTGGA CGTGGTTTTG TCTGCTGCGC CCGCTCTTCG    60
CGCTCTCGTT TCATTTTCTG CAGCGCGCCA CGAGGATGGC CCACAAGCAG ATCTACTACT   120
CGGACAAGTA CTTCGACGAA CACTACGAGT ACCGGCATGT TATGTTACCC AGAGAACTTT   180
CCAAACAAGT ACCTAAAACT CATCTGATGT CTGAAGAGGA GTGGAGGAGA CTTGGTGTCC   240
AACAGAGTCT AGGCTGGGTT CATTACATGA TTCATGAGCC AGAACCACAT ATTCTTCTCT   300
TTAGACGACC TCTTCCAAAA GATCAACAAA AATGAAGTTT ATCTGGGGAT CGTCAAATCT   360
TTTTCAAATT TAATGTATAT GTGTATATAA GGTAGTATTC AGTGAATACT TGAGAAATGT   420
ACAAATCTTT CATCCATACC TGTGCATGAG CTGTATTCTT CACAGCAACA GAGCTCAGTT   480
AAATGCAACT GCAAGTAGGT TACTGTAAGA TGTTTAAGAT AAAAGTTCTT CCAGTCAGTT   540
TTTCTCTTAA GTGCCTGTTT GAGTTTACTG AAACAGTTTA CTTTTGTTCA ATAAAGTTTG   600
TATGTTGCAT TTAAAAAAAA AAAAAAA
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Seq ID NO: 115 Protein sequence:
Protein Accession #: NP_001818

```
1          11         21         31         41         51
|          |          |          |          |          |
MAHKQIYYSD KYFDEHYEYR HVMLPRELSK QVPKTHLMSE EEWRRLGVQQ SLGWVHYMIH    60
EPEPHILLFR RPLPKDQQK
```

Seq ID NO: 116 DNA sequence
Nucleic Acid Accession #: CAT cluster

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1          11         21         31         41         51
|          |          |          |          |          |
TCAGACCTCA TGAGTCACTT GGACTCTTGA GCCACCTCTG GGGGTGGAGT CTCTCTCCTG    60
GCATCTGGAC CCTTGGTGCT ATCGACGAAG CTTGGGTGGG GCTCTTAGCT GCTATGTGCA   120
AGAGGTGTGT TCCAGGGAAA GCCCCTATCT CTCTGCAGAG GTCAAGTGAA AGCGACGGCC   180
GCAGCCAACA GAGTTCAAAA TGCAGGCTTG GAAAGTACAG GGGGCTCTGT GGAGGATGGG   240
AAGGACTGAT CCACATTCCC ACCAGGAAGT TTAGCAGAAC CCCCGCGTGC CAACTGGACC   300
CCTTGGAAGG ACCTGGCTCA GGCTGGACCA CCTCTTGAGA GGGAGGAGCT CTGGATTTGA   360
TCAAGAATTC TTTGCTGAGC ATGGTGCCTC ATGCCTATAA TACCAACACT TTGGGAGGCC   420
AGTGTGGGAG GATCTCTTGA GCCCAGGAGT TCAAGACTAG CCTGGGCAAC ACAGAGAGAA   480
CCCATCTCTA AAATAATAAT AATAATAAAA TAAAAAATTA GCAGGGCATG GTGGCATGTG   540
CCTGTAGTTC CAGCTACCCA GGAGGCTGAG GCAAGAGGAT GGCTGGAGCC TGGGATGTTG   600
AGGCTGCAAT GAACTGTGAT TACCCCACTG CACTCCAGCC TGGGCAAAAG AGCGAGAGAA   660
CCTGTCTCAA ATAATAATAA TAATAATAAT CTTATTTTGG AGAATAAAGA GACCTCTGGA   720
TTTGAGGTGC CATTTGGGTA GAAAGAAAAG ACGTTTACAC CGAGAAATAG TCTGTGTTGC   780
CCTGAAGGAG CAGAGGGATG CATCGCTGGA GGTGACCTAC AGTTGAAGAA GACTCATTAT   840
GACAGACCTT GTCCTTCTTC CTTGTGGAAA GTGTTTCCTC TGCTGCTACT GCTCATGAGA   900
CTCTTCCCCC TCCCTGTCCC AGGGAACCAA AGGGCTTTCT ACCACACCCT TTCTTGCCCC   960
CCGCCTCCCA TGTCTGCTGT GCCTTTGTAC TCAGCAATTC TTGTTTGCTC CATTATCTTC  1020
CAGCCGGATA CAGAGTGAAT AGTTAACCAC ACTTAGGTCA AATAGGATCT AAATTTTTGT  1080
TCCTGCTCCG TGTAAAGAGG CCAGTGTTTG TGTGTTGCAA GCAGCCTTGG AATAGTAACT  1140
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CTTCTCATTT GTTTGGGATC TGGCCACCAA GTTCCAGAAT GATACACGGA TCAGTGCAGA  1200
AGTTCATCAG GCTCTCGGAC CTTAGGGCTG TTGGAGAAGG CTTCAGCAGC AGAACTGATG  1260
GTGAAGGCTC GTGTTCTCCA TCCTCAACTT TCTTTGCTTC GATCATACAC AAGAATACAT  1320
TTGGAAGGGC AAAAAATGAA CACTGTCGTT CATTGCAGCC GTGTTTTGTG ACACAGATGC  1380
ACAGTCTGCT GTGAAGACCT TCTCTCAAGT GGCATTTGGG AGTCCATGCC AGATCATGGT  1440
GCTTCATGAG AGACTGACAG CTATCAGGGG TTGTGGCACT TAGTGAGGAC TCTCCTCCCC  1500
CAGTGTGTGC TGATGACACA TACACACCTG ACAATAGCTT GAGTCTTCTC TGTTCCTTTT  1560
ACTCTGTAGC CAACATACAC ATGATTTAAA ACCCTTTCTA AATATCTATC ATGGTTCATC  1620
CTTGTCCAAA TGCAGAGTCA GAGCTATTTG TACTTCATTA TTATTTCCAA GGCGAATAGT  1680
TGGCTTTCTT TTTGCAAAAA TAATTAAAGT TTTTGTATGT TGCAAAAAAA AAAAAAAAAA  1740
AAACAAAAAA
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Seq ID NO: 117 DNA sequence
Nucleic Acid Accession #: BC012178.1
Coding sequence: 204-2285

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1          11         21         31         41         51
|          |          |          |          |          |
CTTCTCTCCC GCGGCGCTGG GGCCCGCGCT CCGCTGCTGT TGCTCCATTC GGCGCTTTTC    60
TGGCGGCTGG CTCCTCTCCG CTGCCGGCTG CTCCTCGACC AGGCCTCCTT CTCAACCTCA   120
GCCCGCGGCG CCGACCCTTC CGGCACCCTC CCGCCCCGTC TCGTACTGTC GCCGTCACCG   180
CCGCGGCTCC GGCCCTGGCC CCGATGGCTC TGTGCAACGG AGACTCCAAG CTGGAGAATG   240
CTGGAGGAGA CCTTAAGGAT GGCCACCACC ACTATGAAGG AGCTGTTGTC ATTCTGGATG   300
CTGGTGCTCA GTACGGGAAA GTCATAGACC GAAGAGTGAG GGAACTGTTC GTGCAGTCTG   360
AAATTTTCCC CTTGGAAACA CCAGCATTTG CTATAAAGGA ACAAGGATTC CGTGCTATTA   420
TCATCTCTGG AGGACCTAAT TCTGTGTATG CTGAAGATGC TCCCTGGTTT GATCCAGCAA   480
TATTCACTAT TGGCAAGCCT GTTCTTGGAA TTTGCTATGG TATGCAGATG ATGAATAAGG   540
TATTTGGAGG TACTGTGCAC AAAAAAAGTG TCAGAGAAGA TGGAGTTTTC AACATTAGTG   600
TGGATAATAC ATGTTCATTA TTCAGGGGCC TTCAGAAGGA AGAAGTTGTT TTGCTTACAC   660
ATGGAGATAG TGTAGACAAA GTAGCTGATG GATTCAAGGT TGTGGCACGT TCTGGAAACA   720
TAGTAGCAGG CATAGCAAAT GAATCTAAAA AGTTATATGG AGCACAGTTC CACCCTGAAG   780
TTGGCCTTAC AGAAAATGGA AAAGTAATAC TGAAGAATTT CCTTTATGAT ATAGCTGGAT   840
GCAGTGGAAC CTTCACCGTG CAGAACAGAG AACTTGAGTG TATTCGAGAG ATCAAAGAGA   900
GAGTAGGCAC GTCAAAAGTT TTGGTTTTAC TCAGTGGTGG AGTAGACTCA ACAGTTTGTA   960
CAGCTTTGCT AAATCGTGCT TTGAACCAAG AACAAGTCAT TGCTGTGCAC ATTGATAATG  1020
GCTTTATGAG AAAACGAGAA AGCCAGTCTG TTGAAGAGGC CCTCAAAAAG CTTGGAATTC  1080
AGGTCAAAGT GATAAATGCT GCTCATTCTT TCTACAATGG AACAACAACC CTACCAATAT  1140
CAGATGAAGA TAGAACCCCA CGGAAAAGAA TTAGCAAAAC GTTAAATATG ACCACAAGTC  1200
CTGAAGAGAA AAGAAAAATC ATTGGGGATA CTTTTGTTAA GATTGCCAAT GAAGTAATTG  1260
GAGAAATGAA CTTGAAACCA GAGGAGGTTT TCCTTGCCCA AGGTACTTTA CGGCCTGATC  1320
TAATTGAAAG TGCATCCCTT GTTGCAAGTG GCAAAGCTGA ACTCATCAAA ACCCATCACA  1380
ATGACACAGA GCTCATCAGA AAGTTGAGAG AGGAGGGAAA AGTAATAGAA CCTCTGAAAG  1440
ATTTTCATAA AGATGAAGTG AGAATTTTGG GCAGAGAACT TGGACTTCCA GAAGAGTTAG  1500
TTTCCAGGCA TCCATTTCCA GGTCCTGGCC TGGCAATCAG AGTAATATGT GCTGAAGAAC  1560
CTTATATTTG TAAGGACTTT CCTGAAACCA ACAATATTTT GAAAATAGTA GCTGATTTTT  1620
CTGCAAGTGT TAAAAAGCCA CATACCCTAT TACAGAGAGT CAAAGCCTGC ACAACAGAAG  1680
AGGATCAGGA GAAGCTGATG CAAATTACCA GTCTGCATTC ACTGAATGCC TTCTTGCTGC  1740
CAATTAAAAC TGTAGGTGTG CAGGGTGACT GTCGTTCCTA CAGTTACGTG TGTGGAATCT  1800
CCAGTAAAGA TGAACCTGAC TGGGAATCAC TTATTTTTCT GGCTAGGCTT ATACCTCGCA  1860
TGTGTCACAA CGTTAACAGA GTTGTTTATA TATTTGGCCC ACCAGTTAAA GAACCTCCTA  1920
CAGATGTTAC TCCCACTTTC TTGACAACAG GGGTGCTCAG TACTTTACGC CAAGCTGATT  1980
TTGAGGCCCA TAACATTCTC AGGGAGTCTG GGTATGCTGG GAAAATCAGC CAGATGCCGG  2040
TGATTTTGAC ACCATTACAT TTTGATCGGG ACCCACTTCA AAAGCAGCCT TCATGCCAGA  2100
GATCTGTGGT TATTCGAACC TTTATTACTA GTGACTTCAT GACTGGTATA CCTGCAACAC  2160
CTGGCAATGA GATCCCTGTA GAGGTGGTAT TAAAGATGGT CACTGAGATT AAGAAGATTC  2220
CTGGTATTTC TCGAATTATG TATGACTTAA CATCAAAGCC CCCAGGAACT ACTGAGTGGG  2280
AGTAATAAAC TTCTTGTTCT ATTAAAA
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Seq ID NO: 118 Protein sequence:
Protein Accession #: AAH12178.1

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1          11         21         31         41         51
|          |          |          |          |          |
MALCNGDSKL ENAGGDLKDG HHHYEGAVVI LDAGAQYGKV IDRRVRELFV QSEIFPLETP    60
AFAIKEQGFR AIIISGGPNS VYAEDAPWFD PAIFTIGKPV LGICYGMQMM NKVFGGTVHK   120
KSVREDGVFN ISVDNTCSLF RGLQKEEVVL LTHGDSVDKV ADGFKVVARS GNIVAGIANE   180
SKKLYGAQFH PEVGLTENGK VILKNFLYDI AGCSGTFTVQ NRELECIREI KERVGTSKVL   240
VLLSGGVDST VCTALLNRAL NQEQVIAVHI DNGFMRKRES QSVEEALKKL GIQVKVINAA   300
HSFYNGTTTL PISDEDRTPR KRISKTLNMT TSPEEKRKII GDTFVKIANE VIGEMNLKPE   360
EVFLAQGTLR PDLIESASLV ASGKAELIKT HHNDTELIRK LREEGKVIEP LKDFHKDEVR   420
ILGRELGLPE ELVSRHPFPG PGLAIRVICA EEPYICKDFP ETNNILKIVA DFSASVKKPH   480
TLLQRVKACT TEEDQEKLMQ ITSLHSLNAF LLPIKTVGVQ GDCRSYSYVC GISSKDEPDW   540
ESLIFLARLI PRMCHNVNRV VYIFGPPVKE PPTDVTPTFL TTGVLSTLRQ ADFEAHNILR   600
ESGYAGKISQ MPVILTPLHF DRDPLQKQPS CQRSVVIRTF ITSDFMTGIP ATPGNEIPVE   660
VVLKMVTEIK KIPGISRIMY DLTSKPPGTT EWE
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Seq ID NO: 119 DNA sequence
Nucleic Acid Accession #: NM_006500.1
Coding sequence: 27..1967

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1          11         21         31         41         51
|          |          |          |          |          |
ACTTGCGTCT CGCCCTCCGG CCAAGCATGG GGCTTCCCAG GCTGGTCTGC GCCTTCTTGC    60
TCGCCGCCTG CTGCTGCTGT CCTCGCGTCG CGGGTGTGCC CGGAGAGGCT GAGCAGCCTG   120
CGCCTGAGCT GGTGGAGGTG GAAGTGGGCA GCACAGCCCT TCTGAAGTGC GGCCTCTCCC   180
AGTCCCAAGG CAACCTCAGC CATGTCGACT GGTTTTCTGT CCACAAGGAG AAGCGGACGC   240
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TCATCTTCCG TGTGCGCCAG GGCCAGGGCC AGAGCGAACC TGGGGAGTAC GAGCAGCGGC   300
TCAGCCTCCA GGACAGAGGG GCTACTCTGG CCCTGACTCA AGTCACCCCC CAAGACGAGC   360
GCATCTTCTT GTGCCAGGGC AAGCGCCCTC GGTCCCAGGA GTACCGCATC CAGCTCCGCG   420
TCTACAAAGC TCCGGAGGAG CCAAACATCC AGGTCAACCC CCTGGGCATC CCTGTGAACA   480
GTAAGGAGCC TGAGGAGGTC GCTACCTGTG TAGGGAGGAA CGGGTACCCC ATTCCTCAAG   540
TCATCTGGTA CAAGAATGGC CGGCCTCTGA AGGAGGAGAA GAACCGGGTC CACATTCAGT   600
CGTCCCAGAC TGTGGAGTCG AGTGGTTTGT ACACCTTGCA GAGTATTCTG AAGGCACAGC   660
TGGTTAAAGA AGACAAAGAT GCCCAGTTTT ACTGTGAGCT CAACTACCGG CTGCCCAGTG   720
GGAACCACAT GAAGGAGTCC AGGGAAGTCA CCGTCCCTGT TTTCTACCCG ACAGAAAAAG   780
TGTGGCTGGA AGTGGAGCCC GTGGGAATGC TGAAGGAAGG GGACCGCGTG GAAATCAGGT   840
GTTTGGCTGA TGGCAACCCT CCACCACACT TCAGCATCAG CAAGCAGAAC CCCAGCACCA   900
GGGAGGCAGA GGAAGAGACA ACCAACGACA ACGGGGTCCT GGTGCTGGAG CCTGCCCGGA   960
AGGAACACAG TGGGCGCTAT GAATGTCAGG CCTGGAACTT GGACACCATG ATATCGCTGC  1020
TGAGTGAACC ACAGGAACTA CTGGTGAACT ATGTGTCTGA CGTCCGAGTG AGTCCCGCAG  1080
CCCCTGAGAG ACAGGAAGGC AGCAGCCTCA CCCTGACCTG TGAGGCAGAG AGTAGCCAGG  1140
ACCTCGAGTT CCAGTGGCTG AGAGAAGAGA CAGACCAGGT GCTGGAAAGG GGGCCTGTGC  1200
TTCAGTTGCA TGACCTGAAA CGGGAGGCAG GAGGCGGCTA TCGCTGCGTG GCGTCTGTGC  1260
CCAGCATACC CGGCCTGAAC CGCACACAGC TGGTCAAGCT GGCCATTTTT GGCCCCCCTT  1320
GGATGGCATT CAAGGAGAGG AAGGTGTGGG TGAAAGAGAA TATGGTGTTG AATCTGTCTT  1380
GTGAAGCGTC AGGGCACCCC CGGCCCACCA TCTCCTGGAA CGTCAACGGC ACGGCAAGTG  1440
AACAAGACCA AGATCCACAG CGAGTCCTGA GCACCCTGAA TGTCCTCGTG ACCCCGGAGC  1500
TGTTGGAGAC AGGTGTTGAA TGCACGGCCT CCAACGACCT GGGCAAAAAC ACCAGCATCC  1560
TCTTCCTGGA GCTGGTCAAT TTAACCACCC TCACACCAGA CTCCAACACA ACCACTGGCC  1620
TCAGCACTTC CACTGCCAGT CCTCATACCA GAGCCAACAG CACCTCCACA GAGAGAAAGC  1680
TGCCGGAGCC GGAGAGCCGG GGCGTGGTCA TCGTGGCTGT GATTGTGTGC ATCCTGGTCC  1740.
TGGCGGTGCT GGGCGCTGTC CTCTATTTCC TCTATAAGAA GGGCAAGCTG CCGTGCAGGC  1800
GCTCAGGGAA GCAGGAGATC ACGCTGCCCC CGTCTCGTAA GACCGAACTT GTAGTTGAAG  1860
TTAAGTCAGA TAAGCTCCCA GAAGAGATGG GCCTCCTGCA GGGCAGCAGC GGTGACAAGA  1920
GGGCTCCGGG AGACCAGGGA GAGAAATACA TCGATCTGAG GCATTAGCCC CGAATCACTT  1980
CAGCTCCCTT CCCTGCCTGG ACCATTCCCA GCTCCCTGCT CACTCTTCTC TCAGCCAAAG  2040
CCTCCAAAGG GACTAGAGAG AAGCCTCCTG CTCCCCTCAC CTGCACACCC CCTTTCAGAG  2100
GGCCACTGGG TTAGGACCTG AGGACCTCAC TTGGCCCTGC AAGCCGCTTT TCAGGGACCA  2160
GTCCACCACC ATCTCCTCCA CGTTGAGTGA AGCTCATCCC AAGCAAGGAG CCCCAGTCTC  2220
CCGAGCGGGT AGGAGAGTTT CTTGCAGAAC GTGTTTTTTC TTTACACACA TTATGGCTGT  2280
AAATACCTGG CTCCTGCCAG CAGCTGAGCT GGGTAGCCTC TCTGAGCTGG TTTCCTGCCC  2340
CAAAGGCTGG CTTCCACCAT CCAGGTGCAC CACTGAAGTG AGGACACACC GGAGCCAGGC  2400
GCCTGCTCAT GTTGAAGTGC GCTGTTCACA CCCGCTCCGG AGAGCACCCC AGCGGCATCC  2460
AGAAGCAGCT GCAGTGTTGC TGCCACCACC CTCCTGCTCG CCTCTTCAAA GTCTCCTGTG  2520
ACATTTTTTC TTTGGTCAGA AGCCAGGAAC TGGTGTCATT CCTTAAAAGA TACGTGCCGG  2580
GGCCAGGTGT GGTGGCTCAC GCCTGTAATC CCAGCACTTT GGGAGGCCGA GGCGGGCGGA  2640
TCACAAAGTC AGGACGAGAC CATCCTGGCT AACACGGTGA AACCCTGTCT CTACTAAAAA  2700
TACAAAAAAA AATTAGCTAG GCGTAGTGGT TGGCACCTAT AGTCCCAGCT ACTCGGAAGG  2760
CTGAAGCAGG AGAATGGTAT GAATCCAGGA GGTGGAGCTT GCAGTGAGCC GAGACCGTGC  2820
CACTGCACTC CAGCCTGGGC AACACAGCGA GACTCCGTCT CGAGGAAAAA AAAAGAAAAG  2880
ACGCGTACCT GCGGTGAGGA AGCTGGGCGC TGTTTTCGAG TTCAGGTGAA TTAGCCTCAA  2940
TCCCCGTGTT CACTTGCTCC CATAGCCCTC TTGATGGATC ACGTAAAACT GAAAGGCAGC  3000
GGGGAGCAGA CAAAGATGAG GTCTACACTG TCCTTCATGG GGATTAAAGC TATGGTTATA  3060
TTAGCACCAA ACTTCTACAA ACCAAGCTCA GGGCCCCAAC CCTAGAAGGG CCCAAATGAG  3120
AGAATGGTAC TTAGGGATGG AAAACGGGGC CTGGCTAGAG CTTCGGGTGT GTGTGTCTGT  3180
CTGTGTGTAT GCATACATAT GTGTGTATAT ATGGTTTTGT CAGGTGTGTA AATTTGCAAA  3240
TTGTTTCCTT TATATATGTA TGTATATATA TATATGAAAA TATATATATA TATGAAAAAT  3300
AAAGCTTAAT TGTCCCAGAA AATCATACAT TGCTTTTTTA TTCTACATGG GTACCACAGG  3360
AACCTGGGGG CCTGTGAAAC TACAACCAAA AGGCACACAA AACCGTTTCC AGTTGGCAGC  3420
AGAGATCAGG GGTTACCTCT GCTTCTGAGC AAATGGCTCA AGCTCTACCA GAGCAGACAG  3480
CTACCCTACT TTTCAGCAGC AAAACGTCCC GTATGACGCA GCACGAAGGG CCTGGCAGGC  3540
TGTTAGCAGG AGCTATGTCC CTTCCTATCG TTTCCGTCCA CTT
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Seq ID NO: 120 Protein sequence:
Protein Accession #: NP_006491.1

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1          11         21         31         41         51
|          |          |          |          |          |
MGLPRLVCAF LLAACCCCPR VAGVPGEAEQ PAPELVEVEV GSTALLKCGL SQSQGNLSHV    60
DWFSVHKEKR TLIFRVRQGQ GQSEPGEYEQ RLSLQDRGAT LALTQVTPQD ERIFLCQGKR   120
PRSQEYRIQL RVYKAPEEPN IQVNPLGIPV NSKEPEEVAT CVGRNGYPIP QVIWYKNGRP   180
LKEEKNRVHI QSSQTVESSG LYTLQSILKA QLVKEDKDAQ FYCELNYRLP SGNHMKESRE   240
VTVPVFYPTE KVWLEVEPVG MLKEGDRVEI RCLADGNPPP HFSISKQNPS TREAEEETTN   300
DNGVLVLEPA RKEHSGRYEC QAWNLDTMIS LLSEPQELLV NYVSDVRVSP AAPERQEGSS   360
LTLTCEAESS QDLEFQWLRE ETDQVLERGP VLQLHDLKRE AGGGYRCVAS VPSIPGLNRT   420
QLVKLAIFGP PWMAFKERKV WVKENMVLNL SCEASGHPRP TISWNVNGTA SEQDQDPQRV   480
LSTLNVLVTP ELLETGVECT ASNDLGKNTS ILFLELVNLT TLTPDSNTTT GLSTSTASPH   540
TRANSTSTER KLPEPESRGV VIVAVIVCIL VLAVLGAVLY FLYKKGKLPC RRSGKQEITL   600
PPSRKTELVV EVKSDKLPEE MGLLQGSSGD KRAPGDQGEK YIDLRH
```

Seq ID NO: 121 DNA sequence
Nucleic Acid Accession #: NM_018306
Coding sequence: 60-671

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1          11         21         31         41         51
|          |          |          |          |          |
ATAGTCTACA CAGAGCTCCC CTTGCTGCCC AGACAAGCTG AAGGACCACA GGAAAAGCCA    60
TGGAGACTTC AGCATCCTCC TCCCAGCCTC AGGACAACAG TCAAGTCCAC AGAGAAACAG   120
AAGATGTAGA CTATGGAGAG ACAGATTTCC ACAAGCAAGA CGGGAAGGCT GGACTCTTTT   180
CCCAAGAACA ATATGAGAGA AACAAGTCTT CTTCCTCCTC CTTCTCTTCC TCCTCATCCT   240
CCTCATCTTC TTCATCCTCC TCCTCCTCAG GTCCTGGGCA TGGGGAGCCT GACGTTTTGA   300
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AGGATGAGCT TCAACTCTAT GGAGATGCTC CTGGAGAGGT GGTACCCTCT GGGGAATCAG   360
GACTCCGAAG GAGAGGCTCT GACCCAGCAA GTGGAGAAGT GGAGGCCTCT CAGTTAAGAA   420
GACTGAATAT AAAGAAAGAT GATGAGTTTT TCCATTTCGT CCTCCTGTGC TTTGCCATCG   480
GGGCCTTGCT GGTGTGTTAT CACTATTACG CAGACTGGTT CATGTCTCTT GGGGTCGGCC   540
TGCTCACCTT CGCCTCCCTG GAAACCGTTG GCATCTACTT CGGACTAGTG TACCGTATCC   600
ACAGCGTCCT CCAAGGCTTC ATCCCCCTCT TCCAGAAGTT TAGGCTGACA GGGTTCAGGA   660
AGACTGACTG AGGCCACTTC CAGGTGGGCA GCAGAGGCAG GCCCCAGTGT GACCACCACT   720
GCGACCCCTG AGCCCACAAG GGCAGAGCAG CATTCTGAGA GACGCACAGG AGACCAAGCC   780
AGACCAATAA ACAGAACACT TTTCCTTCCA TGTGGTCTGA ATGTTGGCAC CAGCCCGGGC   840
AGGGGCATCT CATTTGGGCA GTACTGCTGT GCAACCCAGC TGCAAGGATG GAAGGCAGAG   900
GGTGGGTGTG GGGCCTGAGG CTTCACAGTA CCTGGACCAG CAGGAAGATT CTGGGAGGTC   960
ACTGCTCTCA GAGGACAGCA AGGGACCCTG AGCTCTGCAA GCTGTGATCT GTCTGGGTTC  1020
ATGGTTTTTC TCAAATCCCA GGCTATCTGC ATGCGCTCTC AGGTGCTACC GAGCCATCCT  1080
GGGAGAGATG GATGGTCCAC TGCTTTGAGG CAGGGAGCCA TCGGGCTGGG GCCCCTTGGT  1140
GAACCTGATG CAGGTAAGAT GCTGAGGACT AAAACCATTT TTTTTGCACC CAAAAAAAAA  1200
GGCAGGAAAA TGATCATCAG AAACTAAATG GCAGCCAGGC ATGGGGGCTC ACGACTGTAA  1260
TCCTCGCACT TTGGGAGGCT CAGGCTAAGG GTCGCTTGAA GCTGAGAGTT CAAGACCAAC  1320
CTGGGCAACA TAGTGAGACC CCCATCTCTA CAATTTTTTT TTAATGACCA AATGTGGCGG  1380
TACATACCTG TACATACCTG CGGTTCCAGC TACTCAAGAG GCTGAGGCAG GAGGACTGCT  1440
TGAGCCCAGG AGTTCAGGGC TGCAGTGAGG TACGATCAAG CCACTGCACT CCAGCCTGGG  1500
CGACAGAGCA AGATCGTTTC TCTAAAATT
```

Seq ID NO: 122 Protein sequence:
Protein Accession #: NP_060776

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1          11         21         31         41         51
|          |          |          |          |          |
METSASSSQP QDNSQVHRET EDVDYGETDF HKQDGKAGLF SQEQYERNKS SSSSFSSSSS    60
SSSSSSSSSS GPGHGEPDVL KDELQLYGDA PGEVVPSGES GLRRRGSDPA SGEVEASQLR   120
RLNIKKDDEF FHFVLLCFAI GALLVCYHYY ADWFMSLGVG LLTFASLETV GIYFGLVYRI   180
HSVLQGFIPL FQKFRLTGFR KTD
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Seq ID NO: 123 DNA sequence
Nucleic Acid Accession #: BC022542
Coding sequence: 243..896

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1          11         21         31         41         51
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ACTTGGTCCC AGCCGATAAA TCTGGGGCAG CGCGCGGTAG GAGCTGCGGG CGGCCAGGCC    60
CCTTCCTGCG TCCGCACCTG GCCCCGCGCG CCCCTCTCGG GCGTCCGGCT TCCGGCGTCC   120
TGGCGGCTCG GGTGGCGGCG GTTCGGGCGG CCGCCTGGCT GCTCCTCGGG GCGGCGACGG   180
GGCTCACGCG CGGGCCCGCC ACGGCCTTCA CCGCCGCGCG CTCTGACGCC GGCATAAGGG   240
CCATGTGTTC TGAAATTATT TTGAGGCAAG AAGTTTTGAA AGATGGTTTC CACAGAGACC   300
TTTTAATCAA AGTGAAGTTT GGGGAAAGCA TTGAGGACTT GCACACGTGC CGTCTCTTAA   360
TTAAACAGGA CATTCCTGCA GGACTTTATG TGGATCCGTA TGAGTTGGCT TCATTACGAG   420
AGAGAAACAT AACAGAGGCA GTGATGGTTT CAGAAAATTT TGATATAGAG GCCCCTAACT   480
ATTTGTCCAA GGAGTCTGAA GTTCTCATTT ATGCCAGACG AGATTCACAG TGCATTGACT   540
GTTTTCAAGC CTTTTTGCCT GTGCACTGCC GCTATCATCG GCCGCACAGT GAAGATGGAG   600
AAGCCTCGAT TGTGGTCAAT AACCCAGATT TGTTGATGTT TTGTGACCAA GAGTTCCCGA   660
TTTTGAAATG CTGGGCTCAC TCAGAAGTGG CAGCCCCTTG TGCTTTGGAT AATGAGGATA   720
TATGCCAATG GAACAAGATG AAGTATAAAT CAGTATATAA GAATGTGATT CTACAAGTTC   780
CAGTGGGACT GACTGTACAT ACCTCTCTAG TATGTTCTGT GACTCTGCTC ATTACAATCC   840
TGTGCTCTAC ATTGATCCTT GTAGCAGTTT TCAAATATGG CCATTTTTCC CTATAAGTTT   900
TATGTAGTTA AATGCTTCCT AGAAACCTAA ATAAGATCTA TTAATTTCTG ACGAGAGGTG   960
TTCTTCTAGA ATTAATTACT TTTATCTTTT GTCTTCATTT GTGGCCAAAA TTATGTTTAC  1020
TAGAGGAAAT TTGGGATCAT TCTCAGCTAA TTCCAAAATG TAGTGCTCTA TTGCATGGAT  1080
CCTTGGTAAT CCTCAAGCAT CAGATGCCAT AAGGGGAAAC TTAATTCTGC TAAATTAATG  1140
TTTATTTTGT GAGAAGTGAC TTTATCTTCA TTTGGGGTAG AAAAATTATT TCTTTATGTA  1200
GTAGAGACAA ATTATTCTCA TTTTGCAAGT ACTTTCAATT TAAGCTACAA ATTGAGAAAA  1260
CCGTTATAAA TAAGAATAAA ATAGGCCAGG CACAGTGGCT CACACCTGTA ATCCCAGCAC  1320
TTTGGGAGGC CGAGGTGGGC GGATCACCAG AGGTCAAGAG TTTGAGACCA GCTTGGTGAA  1380
ACCCTGTCTC TACTAAAAAT ACAAAAGTTA GCTGGGGCTG GTGGTGGGCA TCTGTAGTCC  1440
CAGCTAATTG GAAGGGTGAG GCGGGAGGAT CGCTTGAACC TGGGAGGCGG AGGTTCCAGA  1500
GAGCCAAGAT CGCACCACTG CACTACAGCC TGGGCGACAG AACGAGACCC TGTCTCCAAA  1560
GGAAAAACAA AAAAGAAGAA TAAAATAATT TGGATGAAAA TCATGTTTAT TTAAATAGTA  1620
ATGTCATGAG ACTATTAAAG ATGTGCCAGA GTTTCAATGA AAATCATTAA AGTAGGACAG  1680
CTAAGAAATT AATATTAATA TAAAAATTAT TGATAATCTT AAATTATTGA TTATTCCTTA  1740
 ACGCACTCCA TTCTCCTTTT ACATTTTATC ATGTTTCTTT TGAATATATG AATTGGCAAA  1800
 GGACTTGATG AAACTGAGTA CTAAGATTTG GTACAGAGTA TGTCAGGAAG ACAACTCAGA  1860
 TTGCCATTTT AAATAAAGTT GTACATGAAC AAAAAAAAAA AAAAAA
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Seq ID NO: 124 Protein sequence:
Protein Accession #: AAH22542

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1          11         21         31         41         51
|          |          |          |          |          |
MCSEIILRQE VLKDGFHRDL LIKVKFGESI EDLHTCRLLI KQDIPAGLYV DPYELASLRE    60
RNITEAVMVS ENFDIEAPNY LSKESEVLIY ARRDSQCIDC FQAFLPVHCR YHRPHSEDGE   120
ASIVVNNPDL LMFCDQAGSR RMIRFRFDSF DKTIEFPILK CWAHSEVAAP CALENEDICQ   180
WNKMKYKSVY KNVILQVPVG LTVHTSLVCS VTLLITILCS KKKKK
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Seq ID NO: 125 DNA sequence
Nucleic Acid Accession #: NM_004994.1
Coding sequence: 20..2143

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1           11          21          31          41          51
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AGACACCTCT GCCCTCACCA TGAGCCTCTG GCAGCCCCTG GTCCTGGTGC TCCTGGTGCT    60
GGGCTGCTGC TTTGCTGCCC CCAGACAGCG CCAGTCCACC CTTGTGCTCT TCCCTGGAGA   120
CCTGAGAACC AATCTCACCG ACAGGCAGCT GGCAGAGGAA TACCTGTACC GCTATGGTTA   180
CACTCGGGTG GCAGAGATGC GTGGAGAGTC GAAATCTCTG GGGCCTGCGC TGCTGCTTCT   240
CCAGAAGCAA CTGTCCCTGC CCGAGACCGG TGAGCTGGAT AGCGCCACGC TGAAGGCCAT   300
GCGAACCCCA CGGTGCGGGG TCCCAGACCT GGGCAGATTC CAAACCTTTG AGGGCGACCT   360
CAAGTGGCAC CACCACAACA TCACCTATTG GATCCAAAAC TACTCGGAAG ACTTGCCGCG   420
GGCGGTGATT GACGACGCCT TTGCCCGCGC CTTCGCACTG TGGAGCGCGG TGACGCCGCT   480
CACCTTCACT CGCGTGTACA GCCGGGACGC AGACATCGTC ATCCAGTTTG GTGTCGCGGA   540
GCACGGAGAC GGGTATCCCT TCGACGGGAA GGACGGGCTC CTGGCACACG CCTTTCCTCC   600
TGGCCCCGGC ATTCAGGGAG ACGCCCATTT CGACGATGAC GAGTTGTGGT CCCTGGGCAA   660
GGGCGTCGTG GTTCCAACTC GGTTTGGAAA CGCAGATGGC GCGGCCTGCC ACTTCCCCTT   720
CATCTTCGAG GGCCGCTCCT ACTCTGCCTG CACCACCGAC GGTCGCTCCG ACGGCTTGCC   780
CTGGTGCAGT ACCACGGCCA ACTACGACAC CGACGACCGG TTTGGCTTCT GCCCCAGCGA   840
GAGACTCTAC ACCCGGGACG GCAATGCTGA TGGGAAACCC TGCCAGTTTC CATTCATCTT   900
CCAAGGCCAA TCCTACTCCG CCTGCACCAC GGACGGTCGC TCCGACGGCT ACCGCTGGTG   960
CGCCACCACC GCCAACTACG ACCGGGACAA GCTCTTCGGC TTCTGCCCGA CCCGAGCTGA  1020
CTCGACGGTG ATGGGGGGCA ACTCGGCGGG GGAGCTGTGC GTCTTCCCCT TCACTTTCCT  1080
GGGTAAGGAG TACTCGACCT GTACCAGCGA GGGCCGCGGA GATGGGCGCC TCTGGTGCGC  1140
TACCACCTCG AACTTTGACA GCGACAAGAA GTGGGGCTTC TGCCCGGACC AAGGATACAG  1200
TTTGTTCCTC GTGGCGGCGC ATGAGTTCGG CCACGCGCTG GGCTTAGATC ATTCCTCAGT  1260
GCCGGAGGCG CTCATGTACC CTATGTACCG CTTCACTGAG GGGCCCCCCT TGCATAAGGA  1320
CGACGTGAAT GGCATCCGGC ACCTCTATGG TCCTCGCCCT GAACCTGAGC CACGGCCTCC  1380
AACCACCACC ACACCGCAGC CCACGGCTCC CCCGACGGTC TGCCCCACCG GACCCCCCAC  1440
TGTCCACCCC TCAGAGCGCC CCACAGCTGG CCCCACAGGT CCCCCCTCAG CTGGCCCCAC  1500
AGGTCCCCCC ACTGCTGGCC CTTCTACGGC CACTACTGTG CCTTTGAGTC CGGTGGACGA  1560
TGCCTGCAAC GTGAACATCT TCGACGCCAT CGCGGAGATT GGGAACCAGC TGTATTTGTT  1620
CAAGGATGGG AAGTACTGGC GATTCTCTGA GGGCAGGGGG AGCCGGCCGC AGGGCCCCTT  1680
CCTTATCGCC GACAAGTGGC CCGCGCTGCC CCGCAAGCTG GACTCGGTCT TTGAGGAGCC  1740
GCTCTCCAAG AAGCTTTTCT TCTTCTCTGG GCGCCAGGTG TGGGTGTACA CAGGCGCGTC  1800
GGTGCTGGGC CCGAGGCGTC TGGACAAGCT GGGCCTGGGA GCCGACGTGG CCCAGGTGAC  1860
CGGGGCCCTC CGGAGTGGCA GGGGGAAGAT GCTGCTGTTC AGCGGGCGGC GCCTCTGGAG  1920
GTTCGACGTG AAGGCGCAGA TGGTGGATCC CCGGAGCGCC AGCGAGGTGG ACCGGATGTT  1980
CCCCGGGGTG CCTTTGGACA CGCACGACGT CTTCCAGTAC CGAGAGAAAG CCTATTTCTG  2040
CCAGGACCGC TTCTACTGGC GCGTGAGTTC CCGGAGTGAG TTGAACCAGG TGGACCAAGT  2100
GGGCTACGTG ACCTATGACA TCCTGCAGTG CCCTGAGGAC TAGGGCTCCC GTCCTGCTTT  2160
GCAGTGCCAT GTAAATCCCC ACTGGGACCA ACCCTGGGGA AGGAGCCAGT TTGCCGGATA  2220
CAAACTGGTA TTCTGTTCTG GAGGAAAGGG AGGAGTGGAG GTGGGCTGGG CCCTCTCTTC  2280
TCACCTTTGT TTTTGTTGG AGTGTTTCTA ATAAACTTGG ATTCTCTAAC CTTT
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Seq ID NO: 126 Protein sequence:
Protein Accession #: NP_004985.1

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1           11          21          31          41          51
|           |           |           |           |           |
MSLWQPLVLV LLVLGCCFAA PRQRQSTLVL FPGDLRTNLT DRQLAEEYLY RYGYTRVAEM    60
RGESKSLGPA LLLLQKQLSL PETGELDSAT LKAMRTPRCG VPDLGRFQTF EGDLKWHHHN   120
ITYWIQNYSE DLPRAVIDDA FARAFALWSA VTPLTFTRVY SRDADIVIQF GVAEHGDGYP   180
FDGKDGLLAH AFPPGPGIQG DAHFDDDELW SLGKGVVVPT RFGNADGAAC HFPFIFEGRS   240
YSACTTDGRS DGLPWCSTTA NYDTDDRFGF CPSERLYTRD GNADGKPCQF PFIFQGQSYS   300
ACTTDGRSDG YRWCATTANY DRDKLFGFCP TRADSTVMGG NSAGELCVFP FTFLGKEYST   360
CTSEGRGDGR LWCATTSNFD SDKKWGFCPD QGYSLFLVAA HEFGHALGLD HSSVPEALMY   420
PMYRFTEGPP LHKDDVNGIR HLYGPRPEPE PRPPTTTTPQ PTAPPTVCPT GPPTVHPSER   480
PTAGPTGPPS AGPTGPPTAG PSTATTVPLS PVDDACNVNI FDAIAEIGNQ LYLFKDGKYW   540
RFSEGRGSRP QGPFLIADKW PALPRKLDSV FEEPLSKKLF FFSGRQVWVY TGASVLGPRR   600
LDKLGLGADV AQVTGALRSG RGKMLLFSGR RLWRFDVKAQ MVDPRSASEV DRMFPGVPLD   660
THDVFQYREK AYFCQDRFYW RVSSRSELNQ VDQVGYVTYD ILQCPED
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Seq ID NO: 127 DNA sequence
Nucleic Acid Accession #: NM_004181
Coding sequence: 32-670

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1           11          21          31          41          51
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GCAGAAATAG CCTAGGGAGA TCAACCCCGA GATGCTGAAC AAAGTGCTGT CCCGGCTGGG    60
GGTCGCCGGC CAGTGGCGCT TCGTGGACGT GCTGGGGCTG GAAGAGGAGT CTCTGGGCTC   120
GGTGCCAGCG CCTGCCTGCG CGCTGCTGCT GCTGTTTCCC CTCACGGCCC AGCATGAGAA   180
CTTCAGGAAA AAGCAGATTG AAGAGCTGAA GGGACAAGAA GTTAGTCCTA AAGTGTACTT   240
CATGAAGCAG ACCATTGGGA ATTCCTGTGG CACAATCGGA CTTATTCACG CAGTGGCCAA   300
TAATCAAGAC AAACTGGGAT TTGAGGATGG ATCAGTTCTG AAACAGTTTC TTTCTGAAAC   360
AGAGAAAATG TCCCCTGAAG ACAGAGCAAA ATGCTTTGAA AAGAATGAGG CCATACAGGC   420
AGCCCATGAT GCCGTGGCAC AGGAAGGCCA ATGTCGGGTA GATGACAAGG TGAATTTCCA   480
TTTTATTCTG TTTAACAACG TGGATGGCCA CCTCTATGAA CTTGATGGAC GAATGCCTTT   540
TCCGGTGAAC CATGGCGCCA GTTCAGAGGA CACCCTGCTG AAGGACGCTG CCAAGGTGTG   600
CAGAGAATTC ACCGAGCGTG AGCAAGGAGA AGTCCGCTTC TCTGCCGTGG CTCTCTGCAA   660
GGCAGCCTAA TGCTCTGTGG GAGGGACTTT GCTGATTTCC CCTCTTCCCT TCAACATGAA   720
AATATATACC CCCCATGCAG TCTAAAATGC TTCAGTACTT GTGAAACACA GCTGTTCTTC   780
TGTTCTGCAG ACACGCCTTC CCCTCAGCCA CACCCAGGCA CTTAAGCACA AGCAGAGTGC   840
ACAGCTGTCC ACTGGGCCAT TGTGGTGTGA GCTTCAGATG GTGAAGCATT CTCCCCAGTG   900
TATGTCTTGT ATCCGATATC TAACGCTTTA AATGGCTACT TTGGTTTCTG TCTGTAAGTT   960
AAGACCTTGG ATGTGGTTAT GTTGTCCTAA AGAATAAATT TTGCTGATAG TAGC
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Seq ID NO: 128 Protein sequence:
Protein Accession #: NP_004172

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1           11          21          31          41          51
|           |           |           |           |           |
MLNKVLSRLG VAGQWRFVDV LGLEEESLGS VPAPACALLL LFPLTAQHEN FRKKQIEELK    60
GQEVSPKVYF MKQTIGNSCG TIGLIHAVAN NQDKLGFEDG SVLKQFLSET EKMSPEDRAK   120
CFEKNEAIQA AHDAVAQEGQ CRVDDKVNFH FILFNNVDGH LYELDGRMPF PVNHGASSED   180
TLLKDAAKVC REFTEREQGE VRFSAVALCK AA

Seq ID NO: 129 DNA sequence
Nucleic Acid Accession #: NM_000213
Coding sequence: 127-5385

1           11          21          31          41          51
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CCCCGAGGTA GGTCCAGGAC GGGCGCACAG CAGCAGCCGA GGCTGGCCGG GAGAGGGAGG   120
AAGAGGATGG CAGGGCCACG CCCCAGCCCA TGGGCCAGGC TGCTCCTGGC AGCCTTGATC   180
AGCGTCAGCC TCTCTGGGAC CTTGGCAAAC CGCTGCAAGA AGGCCCCAGT GAAGAGCTGC   240
ACGGAGTGTG TCCGTGTGGA TAAGGACTGC GCCTACTGCA CAGACGAGAT GTTCAGGGAC   300
CGGCGCTGCA ACACCCAGGC GGAGCTGCTG GCCGCGGGCT GCCAGCGGGA GAGCATCGTG   360
GTCATGGAGA GCAGCTTCCA AATCACAGAG GAGACCCAGA TTGACACCAC CCTGCGGCGC   420
AGCCAGATGT CCCCCCAAGG CCTGCGGGTC CGTCTGCGGC CCGGTGAGGA GCGGCATTTT   480
GAGCTGGAGG TGTTTGAGCC ACTGGAGAGC CCCGTGGACC TGTACATCCT CATGGACTTC   540
TCCAACTCCA TGTCCGATGA TCTGGACAAC CTCAAGAAGA TGGGGCAGAA CCTGGCTCGG   600
GTCCTGAGCC AGCTCACCAG CGACTACACT ATTGGATTTG GCAAGTTTGT GGACAAAGTC   660
AGCGTCCCGC AGACGGACAT GAGGCCTGAG AAGCTGAAGG AGCCCTGGCC CAACAGTGAC   720
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AAACTGCAGG GAGAGCGGAT CTCAGGCAAC CTGGATGCTC CTGAGGGCGG CTTCGATGCC   840
ATCCTGCAGA CAGCTGTGTG CACGAGGGAC ATTGGCTGGC GCCCGGACAG CACCCACCTG   900
CTGGTCTTCT CCACCGAGTC AGCCTTCCAC TATGAGGCTG ATGGCGCCAA CGTGCTGGCT   960
GGCATCATGA GCCGCAACGA TGAACGGTGC CACCTGGACA CCACGGGCAC CTACACCCAG  1020
TACAGGACAC AGGACTACCC GTCGGTGCCC ACCCTGGTGC GCCTGCTCGC CAAGCACAAC  1080
ATCATCCCCA TCTTTGCTGT CACCAACTAC TCCTATAGCT ACTACGAGAA GCTTCACACC  1140
TATTTCCCTG TCTCCTCACT GGGGGTGCTG CAGGAGGACT CGTCCAACAT CGTGGAGCTG  1200
CTGGAGGAGG CCTTCAATCG GATCCGCTCC AACCTGGACA TCCGGGCCCT AGACAGCCCC  1260
CGAGGCCTTC GGACAGAGGT CACCTCCAAG ATGTTCCAGA AGACGAGGAC TGGGTCCTTT  1320
CACATCCGGC GGGGGGAAGT GGGTATATAC CAGGTGCAGC TGCGGGCCCT TGAGCACGTG  1380
GATGGGACGC ACGTGTGCCA GCTGCCGGAG GACCAGAAGG GCAACATCCA TCTGAAACCT  1440
TCCTTCTCCG ACGGCCTCAA GATGGACGCG GGCATCATCT GTGATGTGTG CACCTGCGAG  1500
CTGCAAAAAG AGGTGCGGTC AGCTCGCTGC AGCTTCAACG GAGACTTCGT GTGCGGACAG  1560
TGTGTGTGCA GCGAGGGCTG GAGTGGCCAG ACCTGCAACT GCTCCACCGG CTCTCTGAGT  1620
GACATTCAGC CCTGCCTGCG GGAGGGCGAG GACAAGCCGT GCTCCGGCCG TGGGGAGTGC  1680
CAGTGCGGGC ACTGTGTGTG CTACGGCGAA GGCCGCTACG AGGGTCAGTT CTGCGAGTAT  1740
GACAACTTCC AGTGTCCCCG CACTTCCGGG TTCCTCTGCA ATGACCGAGG ACGCTGCTCC  1800
ATGGGCCAGT GTGTGTGTGA GCCTGGTTGG ACAGGCCCAA GCTGTGACTG TCCCCTCAGC  1860
AATGCCACCT GCATCGACAG CAATGGGGGC ATCTGTAATG GACGTGGCCA CTGTGAGTGT  1920
GGCCGCTGCC ACTGCCACCA GCAGTCGCTC TACACGGACA CCATCTGCGA GATCAACTAC  1980
TCGGCGATCC ACCCGGGCCT CTGCGAGGAC CTACGCTCCT GCGTGCAGTG CCAGGCGTGG  2040
GGCACCGGCG AGAAGAAGGG GCGCACGTGT GAGGAATGCA ACTTCAAGGT CAAGATGGTG  2100
GACGAGCTTA AGAGAGCCGA GGAGGTGGTG GTGCGCTGCT CCTTCCGGGA CGAGGATGAC  2160
GACTGCACCT ACAGCTACAC CATGGAAGGT GACGGCGCCC CTGGGCCCAA CAGCACTGTC  2220
CTGGTGCACA AGAAGAAGGA CTGCCCTCCG GGCTCCTTCT GGTGGCTCAT CCCCCTGCTC  2280
CTCCTCCTCC TGCCGCTCCT GGCCCTGCTA CTGCTGCTAT GCTGGAAGTA CTGTGCCTGC  2340
TGCAAGGCCT GCCTGGCACT TCTCCCGTGC TGCAACCGAG GTCACATGGT GGGCTTTAAG  2400
GAAGACCACT ACATGCTGCG GGAGAACCTG ATGGCCTCTG ACCACTTGGA CACGCCCATG  2460
CTGCGCAGCG GGAACCTCAA GGGCCGTGAC GTGGTCCGCT GGAAGGTCAC CAACAACATG  2520
CAGCGGCCTG GCTTTGCCAC TCATGCCGCC AGCATCAACC CCACAGAGCT GGTGCCCTAC  2580
GGGCTGTCCT TGCGCCTGGC CCGCCTTTGC ACCGAGAACC TGCTGAAGCC TGACACTCGG  2640
GAGTGCGCCC AGCTGCGCCA GGAGGTGGAG GAGAACCTGA ACGAGGTCTA CAGGCAGATC  2700
TCCGGTGTAC ACAAGCTCCA GCAGACCAAG TTCCGGCAGC AGCCCAATGC CGGGAAAAAG  2760
CAAGACCACA CCATTGTGGA CACAGTGCTG ATGGCGCCCC GCTCGGCCAA GCCGGCCCTG  2820
CTGAAGCTTA CAGAGAAGCA GGTGGAACAG AGGGCCTTCC ACGACCTCAA GGTGGCCCCC  2880
GGCTACTACA CCCTCACTGC AGACCAGGAC GCCCGGGGCA TGGTGGAGTT CCAGGAGGGC  2940
GTGGAGCTGG TGGACGTACG GGTGCCCCTC TTTATCCGGC CTGAGGATGA CGACGAGAAG  3000
CAGCTGCTGG TGGAGGCCAT CGACGTGCCC GCAGGCACTG CCACCCTCGG CCGCCGCCTG  3060
GTAAACATCA CCATCATCAA GGAGCAAGCC AGAGACGTGG TGTCCTTTGA GCAGCCTGAG  3120
TTCTCGGTCA GCCGCGGGGA CCAGGTGGCC CGCATCCCTG TCATCCGGCG TGTCCTGGAC  3180
GGCGGGAAGT CCCAGGTCTC CTACCGCACA CAGGATGGCA CCGCGCAGGG CAACCGGGAC  3240
TACATCCCCG TGGAGGGTGA GCTGCTGTTC CAGCCTGGGG AGGCCTGGAA AGAGCTGCAG  3300
GTGAAGCTCC TGGAGCTGCA AGAAGTTGAC TCCCTCCTGC GGGGCCGCCA GGTCCGCCGT  3360
TTCCACGTCC AGCTCAGCAA CCCTAAGTTT GGGGCCCACC TGGGCCAGCC CCACTCCACC  3420
ACCATCATCA TCAGGGACCC AGATGAACTG GACCGGAGCT TCACGAGTCA GATGTTGTCA  3480
TCACAGCCAC CCCCTCACGG CGACCTGGGC GCCCCGCAGA ACCCCAATGC TAAGGCCGCT  3540
GGGTCCAGGA AGATCCATTT CAACTGGCTG CCCCCTTCTG GCAAGCCAAT GGGGTACAGG  3600
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CCCTCAGTGG AGCTCACCAA CCTGTACCCG TATTGCGACT ATGAGATGAA GGTGTGCGCC  3720
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AGCTGGGCTG AGCCGGCTGA GACCAACGGT GAGATCACAG CCTACGAGGT CTGCTATGGC  3900
CTGGTCAACG ATGACAACCG ACCTATTGGG CCCATGAAGA AAGTGCTGGT TGACAACCCT  3960
AAGAACCGGA TGCTGCTTAT TGAGAACCTT CGGGAGTCCC AGCCCTACCG CTACACGGTG  4020
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CAGCCCAAGA GGCCCATGTC CATCCCCATC ATCCCTGACA TCCCTATCGT GGACGCCCAG  4140
AGCGGGGAGG ACTACGACAG CTTCCTTATG TACAGCGATG ACGTTCTACG CTCTCCATCG  4200
GGCAGCCAGA GGCCCAGCGT CTCCGATGAC ACTGAGCACC TGGTGAATGG CCGGATGGAC  4260
TTTGCCTTCC CGGGCAGCAC CAACTCCCTG CACAGGATGA CCACGACCAG TGCTGCTGCC  4320
TATGGCACCC ACCTGAGCCC ACACGTGCCC CACCGCGTGC TAAGCACATC CTCCACCCTC  4380
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CAGGAGCCGC GGTGCGAGCG GCCGCTGCAG GGCTACAGTG TGGAGTACCA GCTGCTGAAC  4620
GGCGGTGAGC TGCATCGGCT CAACATCCCC AACCCTGCCC AGACCTCGGT GGTGGTGGAA  4680
GACCTCCTGC CCAACCACTC CTACGTGTTC CGCGTGCGGG CCCAGAGCCA GGAAGGCTGG  4740
GGCCGAGAGC GTGAGGGTGT CATCACCATT GAATCCCAGG TGCACCCGCA GAGCCCACTG  4800
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TTCACTGCCC TGAGCCCAGA CTCGCTGCAG CTGAGCTGGG AGCGGCCACG GAGGCCCAAT  4920
GGGGATATCG TCGGCTACCT GGTGACCTGT GAGATGGCCC AAGGAGGAGG GCCAGCCACC  4980
GCATTCCGGG TGGATGGAGA CAGCCCCGAG AGCCGGCTGA CCGTGCCGGG CCTCAGCGAG  5040
AACGTGCCCT ACAAGTTCAA GGTGCAGGCC AGGACCACTG AGGGCTTCGG GCCAGAGCGC  5100
GAGGGCATCA TCACCATAGA GTCCCAGGAT GGAGGACCCT TCCCGCAGCT GGGCAGCCGT  5160
GCCGGGCTCT TCCAGCACCC GCTGCAAAGC GAGTACAGCA GCATCACCAC CACCCACACC  5220
AGCGCCACCG AGCCCTTCCT AGTGGATGGG CCGACCCTGG GGGCCCAGCA CCTGGAGGCA  5280
GGCGGCTCCC TCACCCGGCA TGTGACCCAG GAGTTTGTGA GCCGGACACT GACCACCAGC  5340
GGAACCCTTA GCACCCACAT GGACCAACAG TTCTTCCAAA CTTGACCGCA CCCTGCCCCA  5400
CCCCCGCCAT GTCCCACTAG GCGTCCTCCC GACTCCTCTC CCGGAGCCTC CTCAGCTACT  5460
CCATCCTTGC ACCCCTGGGG GCCCAGCCCA CCCGCATGCA CAGAGCAGGG GCTAGGTGTC  5520
TCCTGGGAGG CATGAAGGGG GCAAGGTCCG TCCTCTGTGG GCCCAAACCT ATTTGTAACC  5580
AAAGAGCTGG GAGCAGCACA AGGACCCAGC CTTTGTTCTG CACTTAATAA ATGGTTTTGC  5640
ACTG
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Seq ID NO: 130 Protein sequence:
Protein Accession #: NP_000204

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CNTQAELLAA GCQRESIVVM ESSFQITEET QIDTTLRRSQ MSPQGLRVRL RPGEERHFEL   120
EVFEPLESPV DLYILMDFSN SMSDDLDNLK KMGQNLARVL SQLTSDYTIG FGKFVDKVSV   180
PQTDMRPEKL KEPWPNSDPP FSFKNVISLT EDVDEFRNKL QGERISGNLD APEGGFDAIL   240
QTAVCTRDIG WRPDSTHLLV FSTESAFHYE ADGANVLAGI MSRNDERCHL DTTGTYTQYR   300
TQDYPSVPTL VRLLAKHNII PIFAVTNYSY SYYEKLHTYF PVSSLGVLQE DSSNIVELLE   360
EAFNRIRSNL DIRALDSPRG LRTEVTSKMF QKTRTGSFHI RRGEVGIYQV QLRALEHVDG   420
THVCQLPEDQ KGNIHLKPSF SDGLKMDAGI ICDVCTCELQ KEVRSARCSF NGDFVCGQCV   480
CSEGWSGQTC NCSTGSLSDI QPCLREGEDK PCSGRGECQC GHCVCYGEGR YEGQFCEYDN   540
FQCPRTSGFL CNDRGRCSMG QCVCEPGWTG PSCDCPLSNA TCIDSNGGIC NGRGHCECGR   600
CHCHQQSLYT DTICEINYSA IHPGLCEDLR SCVQCQAWGT GEKKGRTCEE CNFKVKMVDE   660
LKRAEEVVVR CSFRDEDDDC TYSYTMEGDG APGPNSTVLV HKKKDCPPGS FWWLIPLLLL   720
LLPLLALLLL LCWKYCACCK ACLALLPCCN RGHMVGFKED HYMLRENLMA SDHLDTPMLR   780
SGNLKGRDVV RWKVTNNMQR PGFATHAASI NPTELVPYGL SLRLARLCTE NLLKPDTREC   840
AQLRQEVEEN LNEVYRQISG VHKLQQTKFR QQPNAGKKQD HTIVDTVLMA PRSAKPALLK   900
LTEKQVEQRA FHDLKVAPGY YTLTADQDAR GMVEFQEGVE LVDVRVPLFI RPEDDDEKQL   960
LVEAIDVPAG TATLGRRLVN ITIIKEQARD VVSFEQPEFS VSRGDQVARI PVIRRVLDGG  1020
KSQVSYRTQD GTAQGNRDYI PVEGELLFQP GEAWKELQVK LLELQEVDSL LRGRQVRRFH  1080
VQLSNPKFGA HLGQPHSTTI IIRDPDELDR SFTSQMLSSQ PPPHGDLGAP QNPNAKAAGS  1140
RKIHFNWLPP SGKPMGYRVK YWIQGDSESE AHLLDSKVPS VELTNLYPYC DYEMKVCAYG  1200
AQGEGPYSSL VSCRTHQEVP SEPGRLAFNV VSSTVTQLSW AEPAETNGEI TAYEVCYGLV  1260
NDDNRPIGPM KKVLVDNPKN RMLLIENLRE SQPYRYTVKA RNGAGWGPER EAIINLATQP  1320
KRPMSIPIIP DIPIVDAQSG EDYDSFLMYS DDVLRSPSGS QRPSVSDDTE HLVNGRMDFA  1380
FPGSTNSLHR MTTTSAAAYG THLSPHVPHR VLSTSSTLTR DYNSLTRSEH SHSTTLPRDY  1440
STLTSVSSHD SRLTAGVPDT PTRLVFSALG PTSLRVSWQE PRCERPLQGY SVEYQLLNGG  1500
ELHRLNIPNP AQTSVVVEDL LPNHSYVFRV RAQSQEGWGR EREGVITIES QVHPQSPLCP  1560
LPGSAFTLST PSAPGPLVFT ALSPDSLQLS WERPRRPNGD IVGYLVTCEM AQGGGPATAF  1620
RVDGDSPESR LTVPGLSENV PYKFKVQART TEGFGPEREG IITIESQDGG PFPQLGSRAG  1680
LFQHPLQSEY SSITTTHTSA TEPFLVDGPT LGAQHLEAGG SLTRHVTQEF VSRTLTTSGT  1740
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Seq ID NO: 131 DNA sequence
Nucleic Acid Accession #: BC004372
Coding sequence: 132..2231

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GCCGGCCCCT GCCCCGCGCC CAGGGATCCT CCAGCTCCTT TCGCCCGCGC CCTCCGTTCG   120
CTCCGGACAC CATGGACAAG TTTTGGTGGC ACGCAGCCTG GGGACTCTGC CTCGTGCCGC   180
TGAGCCTGGC GCAGATCGAT TTGAATATAA CCTGCCGCTT TGCAGGTGTA TTCCACGTGG   240
AGAAAAATGG TCGCTACAGC ATCTCTCGGA CGGAGGCCGC TGACCTCTGC AAGGCTTTCA   300
ATAGCACCTT GCCCACAATG GCCCAGATGG AGAAAGCTCT GAGCATCGGA TTTGAGACCT   360
GCAGGTATGG GTTCATAGAA GGGCATGTGG TGATTCCCCG GATCCACCCC AACTCCATCT   420
GTGCAGCAAA CAACACAGGG GTGTACATCC TCACATCCAA CACCTCCCAG TATGACACAT   480
ATTGCTTCAA TGCTTCAGCT CCACCTGAAG AAGATTGTAC ATCAGTCACA GACCTGCCCA   540
ATGCCTTTGA TGGACCAATT ACCATAACTA TTGTTAACCG TGATGGCACC CGCTATGTCC   600
AGAAAGGAGA ATACAGAACG AATCCTGAAG ACATCTACCC CAGCAACCCT ACTGATGATG   660
ACGTGAGCAG CGGCTCCTCC AGTGAAAGGA GCAGCACTTC AGGAGGTTAC ATCTTTTACA   720
CCTTTTCTAC TGTACACCCC ATCCCAGACG AAGACAGTCC CTGGATCACC GACAGCACAG   780
ACAGAATCCC TGCTACCAGT ACGTCTTCAA ATACCATCTC AGCAGGCTGG GAGCCAAATG   840
AAGAAAATGA AGATGAAAGA GACAGACACC TCAGTTTTTC TGGATCAGGC ATTGATGATG   900
ATGAAGATTT TATCTCCAGC ACCATTTCAA CCACACCACG GGCTTTTGAC CACACAAAAC   960
AGAACCAGGA CTGGACCCAG TGGAACCCAA GCCATTCAAA TCCGGAAGTG CTACTTCAGA  1020
CAACCACAAG GATGACTGAT GTAGACAGAA ATGGCACCAC TGCTTATGAA GGAAACTGGA  1080
ACCCAGAAGC ACACCCTCCC CTCATTCACC ATGAGCATCA TGAGGAAGAA GAGACCCCAC  1140
ATTCTACAAG CACAATCCAG GCAACTCCTA GTAGTACAAC GGAAGAAACA GCTACCCAGA  1200
AGGAACAGTG GTTTGGCAAC AGATGGCATG AGGGATATCG CCAAACACCC AGAGAAGACT  1260
```

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CCCATTCGAC AACAGGGACA GCTGCAGCCT CAGCTCATAC CAGCCATCCA ATGCAAGGAA  1320
GGACAACACC AAGCCCAGAG GACAGTTCCT GGACTGATTT CTTCAACCCA ATCTCACACC  1380
CCATGGGACG AGGTCATCAA GCAGGAAGAA GGATGGATAT GGACTCCAGT CATAGTACAA  1440
CGCTTCAGCC TACTGCAAAT CCAAACACAG GTTTGGTGGA AGATTTGGAC AGGACAGGAC  1500
CTCTTTCAAT GACAACGCAG CAGAGTAATT CTCAGAGCTT CTCTACATCA CATGAAGGCT  1560
TGGAAGAAGA TAAAGACCAT CCAACAACTT CTACTCTGAC ATCAAGCAAT AGGAATGATG  1620
TCACAGGTGG AAGAAGAGAC CCAAATCATT CTGAAGGCTC AACTACTTTA CTGGAAGGTT  1680
ATACCTCTCA TTACCCACAC ACGAAGGAAA GCAGGACCTT CATCCCAGTG ACCTCAGCTA  1740
AGACTGGGTC CTTTGGAGTT ACTGCAGTTA CTGTTGGAGA TTCCAACTCT AATGTCAATC  1800
GTTCCTTATC AGGAGACCAA GACACATTCC ACCCCAGTGG GGGGTCCCAT ACCACTCATG  1860
GATCTGAATC AGATGGACAC TCACATGGGA GTCAAGAAGG TGGAGCAAAC ACAACCTCTG  1920
GTCCTATAAG GACACCCCAA ATTCCAGAAT GGCTGATCAT CTTGGCATCC CTCTTGGCCT  1980
TGGCTTTGAT TCTTGCAGTT TGCATTGCAG TCAACAGTCG AAGAAGGTGT GGGCAGAAGA  2040
AAAAGCTAGT GATCAACAGT GGCAATGGAG CTGTGGAGGA CAGAAAGCCA AGTGGACTCA  2100
ACGGAGAGGC CAGCAAGTCT CAGGAAATGG TGCATTTGGT GAACAAGGAG TCGTCAGAAA  2160
CTCCAGACCA GTTTATGACA GCTGATGAGA CAAGGAACCT GCAGAATGTG GACATGAAGA  2220
TTGGGGTGTA ACACCTACAC CATTATCTTG GAAAGAAACA ACCGTTGGAA ACATAACCAT  2280
TACAGGGAGC TGGGACACTT AACAGATGCA ATGTGCTACT GATTGTTTCA TTGCGAATCT  2340
TTTTTAGCAT AAAATTTTCT ACTCTTAAAA AAAAAAAAAA AAAAAAA
```

Seq ID NO: 132 Protein sequence:
Protein Accession #: AAH04372

```
1          11         21         31         41         51
|          |          |          |          |          |
MDKFWWHAAW GLCLVPLSLA QIDLNITCRF AGVFHVEKNG RYSISRTEAA DLCKAFNSTL    60
PTMAQMEKAL SIGFETCRYG FIEGHVVIPR IHPNSICAAN NTGVYILTSN TSQYDTYCFN   120
ASAPPEEDCT SVTDLPNAFD GPITITIVNR DGTRYVQKGE YRTNPEDIYP SNPTDDDVSS   180
GSSSERSSTS GGYIFYTFST VHPIPDEDSP WITDSTDRIP ATSTSSNTIS AGWEPNEENE   240
DERDRHLSFS GSGIDDDEDF ISSTISTTPR AFDHTKQNQD WTQWNPSHSN PEVLLQTTTR   300
MTDVDRNGTT AYEGNWNPEA HPPLIHHEHH EEEETPHSTS TIQATPSSTT EETATQKEQW   360
FGNRWHEGYR QTPREDSHST TGTAAASAHT SHPMQGRTTP SPEDSSWTDF FNPISHPMGR   420
GHQAGRRMDM DSSHSTTLQP TANPNTGLVE DLDRTGPLSM TTQQSNSQSF STSHEGLEED   480
KDHPTTSTLT SSNRNDVTGG RRDPNHSEGS TTLLEGYTSH YPHTKESRTF IPVTSAKTGS   540
PGVTAVTVGD SNSNVNRSLS GDQDTFHPSG GSHTTHGSES DGHSHGSQEG GANTTSGPIR   600
TPQIPEWLII LASLLALALI LAVCIAVNSR RRCGQKKKLV INSGNGAVED RKPSGLNGEA   660
SKSQEMVHLV NKESSETPDQ FMTADETRNL QNVDMKIGV
```

Seq ID NO: 133 DNA sequence
Nucleic Acid Accession #: NM_002882
Coding sequence: 150-755

```
1          11         21         31         41         51
|          |          |          |          |          |
CGAGGTTCGG GTCGTGGGGC GGAGGGAAGA GCGGGCGGGC GGGAGGCGCC GGCGCCAGAC    60
GCGGAGGGAA GGAGCTACGA GTAGCCGCCG AGAGGCCGCG GAGCCAGCGA CGACCGACCC   120
AGCCGAGCCG CCGCCGCCGC CGCGCCCCCA TGGCGGCCGC CAAGGACACT CATGAGGACC   180
ATGATACTTC CACTGAGAAT ACAGACGAGT CCAACCATGA CCCTCAGTTT GAGCCAATAG   240
TTTCTCTTCC TGAGCAAGAA ATTAAAACAC TGGAAGAAGA TGAAAGAGGAA CTTTTTAAAA   300
TGCGGGCAAA ACTGTTCCGA TTTGCCTCTG AGAACGATCT CCCAGAATGG AAGGAGCGAG   360
GCACTGGTGA CGTCAAGCTC CTGAAGCACA AGGAGAAAGG GGCCATCCGC CTCCTCATGC   420
GGAGGGACAA GACCCTGAAG ATCTGTGCCA ACCACTACAT CACGCCGATG ATGGAGCTGA   480
AGCCCAACGC AGGTAGCGAC CGTGCCTGGG TCTGGAACAC CCACGCTGAC TTCGCCGACG   540
AGTGCCCCAA GCCAGAGCTG CTGGCCATCC GCTTCCTGAA TGCTGAGAAT GCACAGAAAT   600
TCAAAACAAA GTTTGAAGAA TGCAGGAAAG AGATCGAAGA GAGAGAAAAG AAAGCAGGAT   660
CAGGCAAAAA TGATCATGCC GAAAAAGTGG CGGAAAAGCT AGAAGCTCTC TCGGTGAAGG   720
AGGAGACCAA GGAGGATGCT GAGGAGAAGC AATAAATCGT CTTATTTTAT TTTCTTTTCC   780
TCTCTTTCCT TTCCTTTTTT TAAAAAATTT TACCCTGCCC CTCTTTTTCG GTTTGTTTTT   840
ATTCTTTCAT TTTTACAAGG GACGTTATAT AAAGAACTGA ACTC
```

Seq ID NO: 134 Protein sequence:
Protein Accession #: NP_002873

```
1          11         21         31         41         51
|          |          |          |          |          |
MAAAKDTHED HDTSTENTDE SNHDPQFEPI VSLPEQEIKT LEEDEEELFK MRAKLFRFAS    60
ENDLPEWKER GTGDVKLLKH KEKGAIRLLM RRDKTLKICA NHYITPMMEL KPNAGSDRAW   120
VWNTHADFAD ECPKPELLAI RFLNAENAQK FKTKFEECRK EIEEREKKAG SGKNDHAEKV   180
AEKLEALSVK EETKEDAEEK Q
```

Seq ID NO: 135 DNA sequence
Nucleic Acid Accession #: NM_000077.2
Coding sequence: 277-742

```
1          11         21         31         41         51
|          |          |          |          |          |
CCCAACCTGG GGCGACTTCA GGTGTGCCAC ATTCGCTAAG TGCTCGGAGT TAATAGCACC    60
TCCTCCGAGC ACTCGCTCAC GGCGTCCCCT TGCCTGGAAA GATACCGCGG TCCCTCCAGA   120
GGATTTGAGG GACAGGGTCG GAGGGGGCTC TTCCGCCAGC ACCGGAGGAA GAAAGAGGAG   180
GGGCTGGCTG GTCACCAGAG GGTGGGGCGG ACCGCGTGCG CTCGGCGGCT GCGGAGAGGG   240
GGAGAGCAGG CAGCGGGCGG CGGGGAGCAG CATGGAGCCG GCGGCGGGGA GCAGCATGGA   300
GCCTTCGGCT GACTGGCTGG CCACGGCCGC GGCCCGGGGT CGGGTAGAGG AGGTGCGGGC   360
GCTGCTGGAG GCGGGGGCGC TGCCCAACGC ACCGAATAGT TACGGTCGGA GGCCGATCCA   420
GGTCATGATG ATGGGCAGCG CCCGAGTGGC GGAGCTGCTG CTGCTCCACG GCGCGGAGCC   480
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CAACTGCGCC GACCCCGCCA CTCTCACCCG ACCCGTGCAC GACGCTGCCC GGGAGGGCTT   540
CCTGGACACG CTGGTGGTGC TGCACCGGGC CGGGGCGCGG CTGGACGTGC GCGATGCCTG   600
GGGCCGTCTG CCCGTGGACC TGGCTGAGGA GCTGGGCCAT CGCGATGTCG CACGGTACCT   660
GCGCGCGGCT GCGGGGGGCA CCAGAGGCAG TAACCATGCC CGCATAGATG CCGCGGAAGG   720
TCCCTCAGAC ATCCCCGATT GAAAGAACCA GAGAGGCTCT GAGAAACCTC GGGAAACTTA   780
GATCATCAGT CACCGAAGGT CCTACAGGGC CACAACTGCC CCCGCCACAA CCCACCCCGC   840
TTTCGTAGTT TTCATTTAGA AAATAGAGCT TTTAAAAATG TCCTGCCTTT TAACGTAGAT   900
ATATGCCTTC CCCCACTACC GTAAATGTCC ATTTATATCA TTTTTTATAT ATTCTTATAA   960
AAATGTAAAA AAGAAAAACA CCGCTTCTGC CTTTTCACTG TGTTGGAGTT TTCTGGAGTG  1020
AGCACTCACG CCCTAAGCGC ACATTCATGT GGGCATTTCT TGCGAGCCTC GCAGCCTCCG  1080
GAAGCTGTCG ACTTCATGAC AAGCATTTTG TGAACTAGGG AAGCTCAGGG GGGTTACTGG  1140
CTTCTCTTGA GTCACACTGC TAGCAAATGG CAGAACCAAA GCTCAAATAA AAATAAAATA  1200
ATTTTCATTC ATTCACTC
```

Seq ID NO: 136 Protein sequence:
Protein Accession #: NP_000068.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MEPAAGSSME PSADWLATAA ARGRVEEVRA LLEAGALPNA PNSYGRRPIQ VMMMGSARVA    60
ELLLLHGAEP NCADPATLTR PVHDAAREGF LDTLVVLHRA GARLDVRDAW GRLPVDLAEE   120
LGHRDVARYL RAAAGGTRGS NHARIDAAEG PSDIPD
```

Seq ID NO: 137 DNA sequence
Nucleic Acid Accession #: NM_058196.1
Coding sequence: 104-421

```
1           11          21          31          41          51
|           |           |           |           |           |
TGTGTGGGGG TCTGCTTGGC GGTGAGGGGG CTCTACACAA GCTTCCTTTC CGTCATGCCG    60
GCCCCCACCC TGGCTCTGAC CATTCTGTTC TCTCTGGCAG GTCATGATGA TGGGCAGCGC   120
CCGAGTGGCG GAGCTGCTGC TGCTCCACGG CGCGGAGCCC AACTGCGCCG ACCCCGCCAC   180
TCTCACCCGA CCCGTGCACG ACGCTGCCCG GGAGGGCTTC CTGGACACGC TGGTGGTGCT   240
GCACCGGGCC GGGGCGCGGC TGGACGTGCG CGATGCCTGG GGCCGTCTGC CCGTGGACCT   300
GGCTGAGGAG CTGGGCCATC GCGATGTCGC ACGGTACCTG CGCGCGGCTG CGGGGGGCAC   360
CAGAGGCAGT AACCATGCCC GCATAGATGC CGCGGAAGGT CCCTCAGACA TCCCCGATTG   420
AAAGAACCAG AGAGGCTCTG AGAAACCTCG GGAAACTTAG ATCATCAGTC ACCGAAGGTC   480
CTACAGGGCC ACAACTGCCC CCGCCACAAC CCACCCCGCT TTCGTAGTTT TCATTTAGAA   540
AATAGAGCTT TTAAAAATGT CCTGCCTTTT AACGTAGATA TAAGCCTTCC CCCACTACCG   600
TAAATGTCCA TTTATATCAT TTTTTATATA TTCTTATAAA AATGTAAAAA AGAAAAACAC   660
CGCTTCTGCC TTTTCACTGT GTTGGAGTTT TCTGGAGTGA GCACTCACGC CCTAAGCGCA   720
CATTCATGTG GGCATTTCTT GCGAGCCTCG CAGCCTCCGG AAGCTGTCGA CTTCATGACA   780
AGCATTTTGT GAACTAGGGA AGCTCAGGGG GGTTACTGGC TTCTCTTGAG TCACACTGCT   840
AGCAAATGGC AGAACCAAAG CTCAAATAAA AATAAAATAA TTTTCATTCA TTCACTC
```

Seq ID NO: 138 Protein sequence:
Protein Accession #: NP_478103.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MMMGSARVAE LLLLHGAEPN CADPATLTRP VHDAAREGFL DTLVVLHRAG ARLDVRDAWG    60
RLPVDLAEEL GHRDVARYLR AAAGGTRGSN HARIDAAEGP SDIPD
```

Seq ID NO: 139 DNA sequence
Nucleic Acid Accession #: NM_058197.1
Coding sequence: 272-684

```
1           11          21          31          41          51
|           |           |           |           |           |
CCCAACCTGG GGCGACTTCA GGTGTGCCAC ATTCGCTAAG TGCTCGGAGT TAATAGCACC    60
TCCTCCGAGC ACTCGCTCAC GGCGTCCCCT TGCCTGGAAA GATACCGCGG TCCCTCCAGA   120
GGATTTGAGG GACAGGGTCG GAGGGGGCTC TTCCGCCAGC ACCGGAGGAA GAAAGAGGAG   180
GGGCTGGCTG GTCACCAGAG GGTGGGGCGG ACCGCGTGCG CTCGGCGGCT GCGGAGAGGG   240
GGAGAGCAGG CAGCGGGCGG CGGGGAGCAG CATGGAGCCG GCGGCGGGGA GCAGCATGGA   300
GCCGGCGGCG GGGAGCAGCA TGGAGCCTTC GGCTGACTGG CTGGCCACGG CCGCGGCCCG   360
GGGTCGGGTA GAGGAGGTGC GGGCGCTGCT GGAGGCGGGG GCGCTGCCCA ACGCACCGAA   420
TAGTTACGGT CGGAGGCCGA TCCAGGTGGG TAGAAGGTCT GCAGCGGGAG CAGGGGATGG   480
CGGGCGACTC TGGAGGACGA AGTTTGCAGG GGAATTGGAA TCAGGTAGCG CTTCGATTCT   540
CCGGAAAAAG GGGAGGCTTC CTGGGGAGTT TTCAGAAGGG GTTTGTAATC ACAGACCTCC   600
TCCTGGCGAC GCCCTGGGGG CTTGGGAAAC CAAGGAAGAG GAATGAGGAG CCACGCGCGT   660
ACAGATCTCT CGAATGCTGA GAAGATCTGA AGGGGGGAAC ATATTTGTAT TAGATGGAAG   720
TCATGATGAT GGGCAGCGCC CGAGTGGCGG AGCTGCTGCT GCTCCACGGC GCGGAGCCCA   780
ACTGCGCCGA CCCCGCCACT CTCACCCGAC CCGTGCACGA CGCTGCCCGG GAGGGCTTCC   840
TGGACACGCT GGTGGTGCTG CACCGGGCCG GGGCGCGGCT GGACGTGCGC GATGCCTGGG   900
GCCGTCTGCC CGTGGACCTG GCTGAGGAGC TGGGCCATCG CGATGTCGCA CGGTACCTGC   960
GCGCGGCTGC GGGGGGCACC AGAGGCAGTA ACCATGCCCG CATAGATGCC GCGGAAGGTC  1020
CCTCAGACAT CCCCGATTGA AAGAACCAGA GAGGCTCTGA GAAACCTCGG GAACTTAGAT  1080
CATCAGTCAC CGAAGGTCCT ACAGGGCCAC AACTGCCCCC GCCACAACCC ACCCCGCTTT  1140
CGTAGTTTTC ATTTAGAAAA TAGAGCTTTT AAAAATGTCC TGCCTTTTAA CGTAGATATA  1200
TGCCTTCCCC CACTACCGTA AATGTCCATT TATATCATTT TTTATATATT CTTATAAAAA  1260
TGTAAAAAAG AAAAACACCG CTTCTGCCTT TTCACTGTGT TGGAGTTTTC TGGAGTGAGC  1320
ACTCACGCCC TAAGCGCACA TTCATGTGGG CATTTCTTGC GAGCCTCGCA GCCTCCGGAA  1380
GCTGTCGACT TCATGACAAG CATTTTGTGA ACTAGGGAAG CTCAGGGGGG TTACTGGCTT  1440
CTCTTGAGTC ACACTGCTAG CAAATGGCAG AACCAAAGCT CAAATAAAAA TAAAATAATT  1500
```

TTCATTCATT CACTC

Seq ID NO: 140 Protein sequence:
Protein Accession #: NP_478104.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MEPAAGSSME PAAGSSMEPS ADWLATAAAR GRVEEVRALL EAGALPNAPN SYGRRPIQVG    60
RRSAAGAGDG GRLWRTKFAG ELESGSASIL RKKGRLPGEF SEGVCNHRPP PGDALGAWET   120
KEEE
```

Seq ID NO: 141 DNA sequence
Nucleic Acid Accession #: NM_058195.1
Coding sequence: 163-684

```
1           11          21          31          41          51
|           |           |           |           |           |
CCTCCCTACG GGCGCCTCCG GCAGCCCTTC CCGCGTGCGC AGGGCTCAGA GCCGTTCCGA    60
GATCTTGGAG GTCCGGGTGG GAGTGGGGGT GGGGTGGGGG TGGGGGTGAA GGTGGGGGGC   120
GGGCGCGCTC AGGGAAGGCG GGTGCGCGCC TGCGGGGCGG AGATGGGCAG GGGGCGGTGC   180
GTGGGTCCCA GTCTGCAGTT AAGGGGGCAG GAGTGGCGCT GCTCACCTCT GGTGCCAAAG   240
GGCGGCGCAG CGGCTGCCGA GCTCGGCCCT GGAGGCGGCG AGAACATGGT GCGCAGGTTC   300
TTGGTGACCC TCCGGATTCG GCGCGCGTGC GGCCCGCCGC GAGTGAGGGT TTTCGTGGTT   360
CACATCCCGC GGCTCACGGG GGAGTGGGCA GCGCCAGGGG CGCCCGCCGC TGTGGCCCTC   420
GTGCTGATGC TACTGAGGAG CCAGCGTCTA GGGCAGCAGC CGCTTCCTAG AAGACCAGGT   480
CATGATGATG GGCAGCGCCC GAGTGGCGGA GCTGCTGCTG CTCCACGGCG CGGAGCCCAA   540
CTGCGCCGAC CCCGCCACTC TCACCCGACC CGTGCACGAC GCTGCCCGGG AGGGCTTCCT   600
GGACACGCTG GTGGTGCTGC ACCGGGCCGG GGCGCGGCTG GACGTGCGCG ATGCCTGGGG   660
CCGTCTGCCC GTGGACCTGG CTGAGGAGCT GGGCCATCGC GATGTCGCAC GGTACCTGCG   720
CGCGGCTGCG GGGGGCACCA GAGGCAGTAA CCATGCCCGC ATAGATGCCG CGGAAGGTCC   780
CTCAGACATC CCCGATTGAA AGAACCAGAG AGGCTCTGAG AAACCTCGGG AAACTTAGAT   840
CATCAGTCAC CGAAGGTCCT ACAGGGCCAC AACTGCCCCC GCCACAACCC ACCCCGCTTT   900
CGTAGTTTTC ATTTAGAAAA TAGAGCTTTT AAAAATGTCC TGCCTTTTAA CGTAGATATA   960
TGCCTTCCCC CACTACCGTA AATGTCCATT TATATCATTT TTTATATATT CTTATAAAAA  1020
TGTAAAAAAG AAAAACACCG CTTCTGCCTT TTCACTGTGT TGGAGTTTTC TGGAGTGAGC  1080
ACTCACGCCC TAAGCGCACA TTCATGTGGG CATTTCTTGC GAGCCTCGCA GCCTCCGGAA  1140
GCTGTCGACT TCATGACAAG CATTTTGTGA ACTAGGGAAG CTCAGGGGGG TTACTGGCTT  1200
CTCTTGAGTC ACACTGCTAG CAAATGGCAG AACCAAAGCT CAAATAAAAA TAAAATAATT  1260
TTCATTCATT CACTC
```

Seq ID NO: 142 Protein sequence:
Protein Accession #: NP_478102.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MGRGRCVGPS LQLRGQEWRC SPLVPKGGAA AAELGPGGGE NMVRRFLVTL RIRRACGPPR    60
VRVFVVHIPR LTGEWAAPGA PAAVALVLML LRSQRLGQQP LPRRPGHDDG QRPSGGAAAA   120
PRRGAQLRRP RHSHPTRARR CPGGLPGHAG GAAPGRGAAG RARCLGPSAR GPG
```

Seq ID NO: 143 DNA sequence
Nucleic Acid Accession #: NM_018131
Coding sequence: 412..1107

```
1           11          21          31          41          51
|           |           |           |           |           |
GAAATTGCAC ACTTAAAGAC ATCAGTGGAT GAAATCACAA GTGGGAAAGG AAAGCTGACT    60
GATAAAGAGA GACAGAGACT TTTGGAGAAA ATTCGAGTCC TTGAGGCTGA GAAGGAGAAG   120
AATGCTTATC AACTCACAGA GAAGGACAAA GAAATACAGC GACTGAGAGA CCAACTGAAG   180
GCCAGATATA GTACTACCGC ATTGCTTGAA CAGCTGGAAG AGACAACGAG AGAAGGAGAA   240
AGGAGGGAGC AGGTGTTGAA AGCCTTATCT GAAGAGAAAG ACGTATTGAA ACAACAGTTG   300
TCTGCTGCAA CCTCACGAAT TGCTGAACTT GAAAGCAAAA CCAATACACT CCGTTTATCA   360
CAGACTGTGG CTCCAAACTG CTTCAACTCA TCAATAAATA ATATTCATGA AATGGAAATA   420
CAGCTGAAAG ATGCTCTGGA GAAAAATCAG CAGTGGCTCG TGTATGATCA GCAGCGGGAA   480
GTCTATGTAA AAGGACTTTT AGCAAAGATC TTTGAGTTGG AAAAGAAAAC GGAAACAGCT   540
GCTCATTCAC TCCCACAGCA GACAAAAAAG CCTGAATCAG AAGGTTATCT TCAAGAAGAG   600
AAGCAGAAAT GTTACAACGA TCTCTTGGCA AGTGCAAAAA AAGATCTTGA GGTTGAACGA   660
CAAACCATAA CTCAGCTGAG TTTTGAACTG AGTGAATTTC GAAGAAAATA TGAAGAAACC   720
CAAAAAGAAG TTCACAATTT AAATCAGCTG TTGTATTCAC AAAGAAGGGC AGATGTGCAA   780
CATCTGGAAG ATGATAGGCA TAAAACAGAG AAGATACAAA AACTCAGGGA AGAGAATGAT   840
ATTGCTAGGG GAAAACTTGA AGAAGAGAAG AAGAGATCCG AAGAGCTCTT ATCTCAGGTC   900
CAGTCTCTTT ACACATCTCT GCTAAAGCAG CAAGAAGAAC AAACAAGGGT AGCTCTGTTG   960
GAACAACAGA TGCAGGCATG TACTTTAGAC TTTGAAAATG AAAAACTCGA CCGTCAACAT  1020
GTGCAGCATC AATTGCATGT AATTCTTAAG GAGCTCCGAA AAGCAAGAAA AAATAACACA  1080
GTTGGAATCC TTGAAACAGC TTCATGAGTT TGCCATCACA GAGCCATTAG TCACTTTCCA  1140
AGGAGAGACT GAAAACAGAG AAAAAGTTGC CGCCTCACCA AAAAGTCCCA CTGCTGCACT  1200
CAATGGAAGC CTGGTGGAAT GTCCCAAGTG CAATATACAG TATCCAGCCA CTGAGCATCG  1260
CGATCTGCTT GTCCATGTGG AATACTGTTC AAAGTAGCAA AATAAGTATT TGTTTTGATA  1320
TTAAAAGATT CAATACTGTA TTTTCTGTTA GCTTGTGGGC ATTTTGAATT ATATATTTCA  1380
CATTTTGCAT AAAACTGCCT ATCTACCTTT GACACTCCAG CATGCTAGTG AATCATGTAT  1440
CTTTTAGGCT GCTGTGCATT TCTCTTGGCA GTGATACCTC CCTGACATGG TTCATCATCA  1500
GGCTGCAATG ACAGAATGTG GTGAGCAGCG TCTACTGAGA TACTAACATT TTGCACTGTC  1560
AAAATACTTG GTGAGGAAAA GATAGCTCAG GTTATTGCTA ATGGGTTAAT GCACCAGCAA  1620
GCAAAATATT TTATGTTTCG GGGGTTTTGA AAAATCAAAG ATAATTAACC AAGGATCTTA  1680
ACTGTGTTCG CATTTTTTAT CCAAGCACTT AGAAAACCTA CAATCCTAAT TTTGATGTCC  1740
ATTGTTAAGA GGTGGTGATA GATACTATTT TTTTTTCATA TTGTATAGCG GTTATTAGAA  1800
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AAGTTGGGGA TTTTCTTGAT CTTTATTGCT GCTTACCATT GAAACTTAAC CCAGCTGTGT  1860
TCCCCAACTC TGTTCTGCGC ACGAAACAGT ATCTGTTTGA GGCATAATCT TAAGTGGCCA  1920
CACACAATGT TTTCTCTTAT GTTATCTGGC AGTAACTGTA ACTTGAATTA CATTAGCACA  1980
TTCTGCTTAG CTAAAATTGT TAAAATAAAC TTTAATAAAC CCATGTAGCC CTCTCATTTG  2040
ATTGACAGTA TTTTAGTTAT TTTTGGCATT CTTAAAGCTG GGCAATGTAA TGATCAGATC  2100
TTTGTTTGTC TGAACAGGTA TTTTTATACA TGCTTTTTGT AAACCAAAAA CTTTTAAATT  2160
TCTTCAGGTT TTCTAACATG CTTACCACTG GGCTACTGTA AATGAGAAAA GAATAAAATT  2220
ATTTAATGTT TT
```

Seq ID NO: 144 Protein sequence:
Protein Accession #: NP_060601

```
1           11          21          31          41          51
|           |           |           |           |           |
MEIQLKDALE KNQQWLVYDQ QREVYVKGLL AKIFELEKKT ETAAHSLPQQ TKKPESEGYL    60
QEEKQKCYND LLASAKKDLE VERQTITQLS FELSEFRRKY EETQKEVHNL NQLLYSQRRA   120
DVQHLEDDRH KTEKIQKLRE ENDIARGKLE EEKKRSEELL SQVQSLYTSL LKQQEEQTRV   180
ALLEQQMQAC TLDFENEKLD RQHVQHQLHV ILKELRKARK NNTVGILETA S
```

Seq ID NO: 145 DNA sequence
Nucleic Acid Accession #: NM_001168
Coding sequence: 50..478

```
1           11          21          31          41          51
|           |           |           |           |           |
CCGCCAGATT TGAATCGCGG GACCCGTTGG CAGAGGTGGC GGCGGCGGCA TGGGTGCCCC    60
GACGTTGCCC CCTGCCTGGC AGCCCTTTCT CAAGGACCAC CGCATCTCTA CATTCAAGAA   120
CTGGCCCTTC TTGGAGGGCT GCGCCTGCAC CCCGGAGCGG ATGGCCGAGG CTGGCTTCAT   180
CCACTGCCCC ACTGAGAACG AGCCAGACTT GGCCCAGTGT TTCTTCTGCT TCAAGGAGCT   240
GGAAGGCTGG GAGCCAGATG ACGACCCCAT AGAGGAACAT AAAAAGCATT CGTCCGGTTG   300
CGCTTTCCTT TCTGTCAAGA AGCAGTTTGA AGAATTAACC CTTGGTGAAT TTTTGAAACT   360
GGACAGAGAA AGAGCCAAGA ACAAAATTGC AAAGGAAACC AACAATAAGA AGAAAGAATT   420
TGAGGAAACT GCGAAGAAAG TGCGCCGTGC CATCGAGCAG CTGGCTGCCA TGGATTGAGG   480
CCTCTGGCCG GAGCTGCCTG GTCCCAGAGT GGCTGCACCA CTTCCAGGGT TTATTCCCTG   540
GTGCCACCAG CCTTCCTGTG GGCCCCTTAG CAATGTCTTA GGAAAGGAGA TCAACATTTT   600
CAAATTAGAT GTTTCAACTG TGCTCCTGTT TTGTCTTGAA AGTGGCACCA GAGGTGCTTC   660
TGCCTGTGCA GCGGGTGCTG CTGGTAACAG TGGCTGCTTC TCTCTCTCTC TCTCTTTTTT   720
GGGGGCTCAT TTTTGCTGTT TTGATTCCCG GGCTTACCAG GTGAGAAGTG AGGGAGGAAG   780
AAGGCAGTGT CCCTTTTGCT AGAGCTGACA GCTTTGTTCG CGTGGGCAGA GCCTTCCACA   840
GTGAATGTGT CTGGACCTCA TGTTGTTGAG GCTGTCACAG TCCTGAGTGT GGACTTGGCA   900
GGTGCCTGTT GAATCTGAGC TGCAGGTTCC TTATCTGTCA CACCTGTGCC TCCTCAGAGG   960
ACAGTTTTTT TGTTGTTGTG TTTTTTTGTT TTTTTTTTTT GGTAGATGCA TGACTTGTGT  1020
GTGATGAGAG AATGGAGACA GAGTCCCTGG CTCCTCTACT GTTTAACAAC ATGGCTTTCT  1080
TATTTTGTTT GAATTGTTAA TTCACAGAAT AGCACAAACT ACAATTAAAA CTAAGCACAA  1140
AGCCATTCTA AGTCATTGGG GAAACGGGGT GAACTTCAGG TGGATGAGGA GACAGAATAG  1200
AGTGATAGGA AGCGTCTGGC AGATACTCCT TTGCCACTG CTGTGTGATT AGACAGGCCC  1260
AGTGAGCCGC GGGGCACATG CTGGCCGCTC CTCCCTCAGA AAAAGGCAGT GGCCTAAATC  1320
CTTTTTAAAT GACTTGGCTC GATGCTGTGG GGGACTGGCT GGGCTGCTGC AGGCCGTGTG  1380
TCTGTCAGCC CAACCTTCAC ATCTGTCACG TTCTCCACAC GGGGGAGAGA CGCAGTCCGC  1440
CCAGGTCCCC GCTTTCTTTG GAGGCAGCAG CTCCCGCAGG GCTGAAGTCT GGCGTAAGAT  1500
GATGGATTTG ATTCGCCCTC CTCCCTGTCA TAGAGCTGCA GGGTGGATTG TTACAGCTTC  1560
GCTGGAAACC TCTGGAGGTC ATCTCGGCTG TTCCTGAGAA ATAAAAAGCC TGTCATTTC
```

Seq ID NO: 146 Protein sequence:
Protein Accession #: NP_001159

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1           11          21          31          41          51
|           |           |           |           |           |
MGAPTLPPAW QPFLKDHRIS TFKNWPFLEG CACTPERMAE AGFIHCPTEN EPDLAQCFFC    60
FKELEGWEPD DDPIEEHKKH SSGCAFLSVK KQFEELTLGE FLKLDRERAK NKIAKETNNK   120
KKEFEETAKK VRRAIEQLAA MD
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Seq ID NO: 147 DNA sequence
Nucleic Acid Accession #: NM_014176.1
Coding sequence: 127-720

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1           11          21          31          41          51
|           |           |           |           |           |
GCGCGCAGCG CTGGTACCCC GTTGGTCCGC GCGTTGCTGC GTTGTGAGGG GTGTCAGCTC    60
AGTGCATCCC AGGCAGCTCT TAGTGTGGAG CAGTGAACTG TGTGTGGTTC CTTCTACTTG   120
GGGATCATGC AGAGAGCTTC ACGTCTGAAG AGAGAGCTGC ACATGTTAGC CACAGAGCCA   180
CCCCCAGGCA TCACATGTTG GCAAGATAAA GACCAAATGG ATGACCTGCG AGCTCAAATA   240
TTAGGTGGAG CCAACACACC TTATGAGAAA GGTGTTTTTA AGCTAGAAGT TATCATTCCT   300
GAGAGGTACC CATTTGAACC TCCTCAGATC CGATTTCTCA CTCCAATTTA TCATCCAAAC   360
ATTGATTCTG CTGGAAGGAT TTGTCTGGAT GTTCTCAAAT TGCCACCAAA AGGTGCTTGG   420
AGACCATCCC TCAACATCGC AACTGTGTTG ACCTCTATTC AGCTGCTCAT GTCAGAACCC   480
AACCCTGATG ACCCGCTCAT GGCTGACATA TCCTCAGAAT TTAAATATAA TAAGCCAGCC   540
TTCCTCAAGA ATGCCAGACA GTGGACAGAG AAGCATGCAA GACAGAAACA AAAGGCTGAT   600
GAGGAAGAGA TGCTTGATAA TCTACCAGAG GCTGGTGACT CCAGAGTACA CAACTCAACA   660
CAGAAAAGGA AGGCCAGTCA GCTAGTAGGC ATAGAAAAGA AATTTCATCC TGATGTTTAG   720
GGGACTTGTC CTGGTTCATC TTAGTTAATG TGTTCTTTGC CAAGGTGATC TAAGTTGCCT   780
ACCTTGAATT TTTTTTTAAA TATATTTGAT GACATAATTT TTGTGTAGTT TATTTATCTT   840
GTACATATGT ATTTTGAAAT CTTTTAAACC TGAAAAATAA ATAGTCATTT AATGTTGAAA   900
```

AAAAAAAAAA AAAAAAAAAA AAAAAAAA

Seq ID NO: 148 Protein sequence:
Protein Accession #: NP_054895.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MQRASRLKRE LHMLATEPPP GITCWQDKDQ MDDLRAQILG GANTPYEKGV FKLEVIIPER    60
YPFEPPQIRF LTPIYHPNID SAGRICLDVL KLPPKGAWRP SLNIATVLTS IQLLMSEPNP   120
DDPLMADISS EFKYNKPAFL KNARQWTEKH ARQKQKADEE EMLDNLPEAG DSRVHNSTQK   180
RKASQLVGIE KKFHPDV
```

Seq ID NO: 149 DNA sequence
Nucleic Acid Accession #: NM_003812
Coding sequence: 224-2722

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1           11          21          31          41          51
|           |           |           |           |           |
TCCTCTGCGT CCCGCCCCGG GAGTGGCTGC GAGGCTAGGC GAGCCGGGAA AGGGGGCGCC    60
GCCCAGCCCC GAGCCCCGCG CCCCGTGCCC CGAGCCCGGA GCCCCCTGCC CGCGGCGGCA   120
CCATGCGCGC CGAGCCGGCG TGACCGGCTC CGCCCGCGGC CGCCCCGCAG CTAGCCCGGC   180
GCTCTCGCCG GCCACACGGA GCGGCGCCCG GGAGCTATGA GCCATGAAGC CGCCCGGCAG   240
CAGCTCGCGG CAGCCGCCCC TGGCGGGCTG CAGCCTTGCC GGCGCTTCCT GCGGCCCCCA   300
ACGCGGCCCC GCCGGCTCGG TGCCTGCCAG CGCCCCGGCC CGCACGCCGC CCTGCCGCCT   360
GCTTCTCGTC CTTCTCCTGC TGCCTCCGCT CGCCGCCTCG TCCCGGCCCC GCGCCTGGGG   420
GGCTGCTGCG CCCAGCGCTC CGCATTGGAA TGAAACTGCA GAAAAAAATT TGGGAGTCCT   480
GGCAGATGAA GACAATACAT TGCAACAGAA TAGCAGCAGT AATATCAGTT ACAGCAATGC   540
AATGCAGAAA GAAATCACAC TGCCTTCAAG ACTCATATAT TACATCAACC AAGACTCGGA   600
AAGCCCTTAT CACGTTCTTG ACACAAAGGC AAGACACCAG CAAAAACATA ATAAGGCTGT   660
CCATCTGGCC CAGGCAAGCT TCCAGATTGA AGCCTTCGGC TCCAAATTCA TTCTTGACCT   720
CATACTGAAC AATGGTTTGT TGTCTTCTGA TTATGTGGAG ATTCACTACG AAAATGGGAA   780
ACCACAGTAC TCTAAGGGTG GAGAGCACTG TTACTACCAT GGAAGCATCA GAGGCGTCAA   840
AGACTCCAAG GTGGCTCTGT CAACCTGCAA TGGACTTCAT GGCATGTTTG AAGATGATAC   900
CTTCGTGTAT ATGATAGAGC CACTAGAGCT GGTTCATGAT GAGAAAAGCA CAGGTCGACC   960
ACATATAATC CAGAAAACCT TGGCAGGACA GTATTCTAAG CAAATGAAGA ATCTCACTAT  1020
GGAAAGAGGT GACCAGTGGC CCTTTCTCTC TGAATTACAG TGGTTGAAAA GAAGGAAGAG  1080
AGCAGTGAAT CCATCACGTG GTATATTTGA AGAAATGAAA TATTTGGAAC TTATGATTGT  1140
TAATGATCAC AAAACGTATA AGAAGCATCG CTCTTCTCAT GCACATACCA ACAACTTTGC  1200
AAAGTCCGTG GTCAACCTTG TGGATTCTAT TTACAAGGAG CAGCTCAACA CCAGGGTTGT  1260
CCTGGTGGCT GTAGAGACCT GGACTGAGAA GGATCAGATT GACATCACCA CCAACCCTGT  1320
GCAGATGCTC CATGAGTTCT CAAAATACCG GCAGCGCATT AAGCAGCATG CTGATGCTGT  1380
GCACCTCATC TCGCGGGTGA CATTTCACTA TAAGAGAAGC AGTCTGAGTT ACTTTGGAGG  1440
TGTCTGTTCT CGCACAAGAG GAGTTGGTGT GAATGAGTAT GGTCTTCCAA TGGCAGTGGC  1500
ACAAGTATTA TCGCAGAGCC TGGCTCAAAA CCTTGGAATC CAATGGGAAC CTTCTAGCAG  1560
AAAGCCAAAA TGTGACTGCA CAGAATCCTG GGGTGGCTGC ATCATGGAGG AAACAGGGGT  1620
GTCCCATTCT CGAAAATTTT CAAAGTGCAG CATTTTGGAG TATAGAGACT TTTTACAGAG  1680
AGGAGGTGGA GCCTGCCTTT TCAACAGGCC AACAAAGCTA TTTGAGCCCA CGGAATGTGG  1740
AAATGGATAC GTGGAAGCTG GGGAGGAGTG TGATTGTGGT TTTCATGTGG AATGCTATGG  1800
ATTATGCTGT AAGAAATGTT CCCTCTCCAA CGGGGCTCAC TGCAGCGACG GGCCCTGCTG  1860
TAACAATACC TCATGTCTTT TTCAGCCACG AGGGTATGAA TGCCGGGATG CTGTGAACGA  1920
GTGTGATATT ACTGAATATT GTACTGGAGA CTCTGGTCAG TGCCCACCAA ATCTTCATAA  1980
GCAAGACGGA TATGCATGCA ATCAAAATCA GGGCCGCTGC TACAATGGCG AGTGCAAGAC  2040
CAGAGACAAC CAGTGTCAGT ACATCTGGGG AACAAAGGCT GCAGGGTCTG ACAAGTTCTG  2100
CTATGAAAAG CTGAATACAG AAGGCACTGA GAAGGGAAAC TGCGGGAAGG ATGGAGACCG  2160
GTGGATTCAG TGCAGCAAAC ATGATGTGTT CTGTGGATTC TTACTCTGTA CCAATCTTAC  2220
TCGAGCTCCA CGTATTGGTC AACTTCAGGG TGAGATCATT CCAACTTCCT TCTACCATCA  2280
AGGCCGGGTG ATTGACTGCA GTGGTGCCCA TGTAGTTTTA GATGATGATA CGGATGTGGG  2340
CTATGTAGAA GATGGAACGC CATGTGGCCC GTCTATGATG TGTTTAGATC GGAAGTGCCT  2400
ACAAATTCAA GCCCTAAATA TGAGCAGCTG TCCACTCGAT TCCAAGGGTA AAGTCTGTTC  2460
GGGCCATGGG GTGTGTAGTA ATGAAGCCAC CTGCATTTGT GATTTCACCT GGGCAGGGAC  2520
AGATTGCAGT ATCCGGGATC CAGTTAGGAA CCTTCACCCC CCCAAGGATG AAGGACCCAA  2580
GGGTCCTAGT GCCACCAATC TCATAATAGG CTCCATCGCT GGTGCCATCC TGGTAGCAGC  2640
TATTGTCCTT GGGGGCACAG GCTGGGGATT TAAAAATGTC AAGAAGAGAA GGTTCGATCC  2700
TACTCAGCAA GGCCCCATCT GAATCAGCTG CGCTGGATGG ACACCGCCTT GCACTGTTGG  2760
ATTCTGGGTA TGACATACTC GCAGCAGTGT TACTGGAACT ATTAAGTTTG TAAACAAAAC  2820
CTTTGGGTGG TAATGACTAC GGAGCTAAAG TTGGGGTGAC AAGGATGGGG TAAAAGAAAA  2880
CTGTCTCTTT TGGAAATAAT GTCAAAGAAC ACCTTTCACC ACCTGTCAGT AAACGGGGGA  2940
GGGGGCAAAA GACCATGCTA TAAAAAGAAC TGTTCCAGAA TCTTTTTTTT TCCCTAATGG  3000
ACGAAGGAAC AACACACACA CAAAAATTAA ATGCAATAAA GGAATCATTA AAAA
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Seq ID NO: 150 Protein sequence:
Protein Accession #: NP_003803

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1           11          21          31          41          51
|           |           |           |           |           |
MKPPGSSSRQ PPLAGCSLAG ASCGPQRGPA GSVPASAPAR TPPCRLLLVL LLLPPLAASS    60
RPRAWGAAAP SAPHWNETAE KNLGVLADED NTLQQNSSSN ISYSNAMQKE ITLPSRLIYY   120
INQDSESPYH VLDTKARHQQ KHNKAVHLAQ ASFQIEAFGS KFILDLILNN GLLSSDYVEI   180
HYENGKPQYS KGGEHCYYHG SIRGVKDSKV ALSTCNGLHG MFEDDTFVYM IEPLELVHDE   240
KSTGRPHIIQ KTLAGQYSKQ MKNLTMERGD QWPFLSELQW LKRRKRAVNP SRGIFEEMKY   300
LELMIVNDHK TYKKHRSSHA HTNNFAKSVV NLVDSIYKEQ LNTRVVLVAV ETWTEKDQID   360
ITTNPVQMLH EFSKYRQRIK QHADAVHLIS RVTFHYKRSS LSYFGGVCSR TRGVGVNEYG   420
LPMAVAQVLS QSLAQNLGIQ WEPSSRKPKC DCTESWGGCI MEETGVSHSR KFSKCSILEY   480
RDFLQRGGGA CLFNRPTKLF EPTECGNGYV EAGEECDCGF HVECYGLCCK KCSLSNGAHC   540
SDGPCCNNTS CLFQPRGYEC RDAVNECDIT EYCTGDSGQC PPNLHKQDGY ACNQNQGRCY   600
NGECKTRDNQ CQYIWGTKAA GSDKFCYEKL NTEGTEKGNC GKDGDRWIQC SKHDVFCGFL   660
```

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LCTNLTRAPR IGQLQGEIIP TSFYHQGRVI DCSGAHVVLD DDTDVGYVED GTPCGPSMMC   720
LDRKCLQIQA LNMSSCPLDS KGKVCSGHGV CSNEATCICD FTWAGTDCSI RDPVRNLHPP   780
KDEGPKGPSA TNLIIGSIAG AILVAAIVLG GTGWGFKNVK KRRFDPTQQG PI
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Seq ID NO: 151 DNA sequence
Nucleic Acid Accession #: NM_023915
Coding sequence: 250-1326

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1          11         21         31         41         51
|          |          |          |          |          |
GGCACGAGGG TTTCGTTTTC ATGCTTTACC AGAAAATCCA CTTCCCTGCC GACCTTAGTT    60
TCAAAGCTTA TTCTTAATTA GAGACAAGAA ACCTGTTTCA ACTTGAAGAC ACCGTATGAG   120
GTGAATGGAC AGCCAGCCAC CACAATGAAA GAAATCAAAC CAGGAATAAC CTATGCTGAA   180
CCCACGCCTC AATCGTCCCC AAGTGTTTCC TGACACGCAT CTTTGCTTAC AGTGCATCAC   240
AACTGAAGAA TGGGGTTCAA CTTGACGCTT GCAAAATTAC CAAATAACGA GCTGCACGGC   300
CAAGAGAGTC ACAATTCAGG CAACAGGAGC GACGGGCCAG GAAAGAACAC CACCCTTCAC   360
AATGAATTTG ACACAATTGT CTTGCCGGTG CTTTATCTCA TTATATTTGT GGCAAGCATC   420
TTGCTGAATG GTTTAGCAGT GTGGATCTTC TTCCACATTA GGAATAAAAC CAGCTTCATA   480
TTCTATCTCA AAAACATAGT GGTTGCAGAC CTCATAATGA CGCTGACATT TCCATTTCGA   540
ATAGTCCATG ATGCAGGATT TGGACCTTGG TACTTCAAGT TTATTCTCTG CAGATACACT   600
TCAGTTTTGT TTTATGCAAA CATGTATACT TCCATCGTGT TCCTTGGGCT GATAAGCATT   660
GATCGCTATC TGAAGGTGGT CAAGCCATTT GGGGACTCTC GGATGTACAG CATAACCTTC   720
ACGAAGGTTT TATCTGTTTG TGTTTGGGTG ATCATGGCTG TTTTGTCTTT GCCAAACATC   780
ATCCTGACAA ATGGTCAGCC AACAGAGGAC AATATCCATG ACTGCTCAAA ACTTAAAAGT   840
CCTTTGGGGG TCAAATGGCA TACGGCAGTC ACCTATGTGA ACAGCTGCTT GTTTGTGGCC   900
GTGCTGGTGA TTCTGATCGG ATGTTACATA GCCATATCCA GGTACATCCA CAAATCCAGC   960
AGGCAATTCA TAAGTCAGTC AAGCCGAAAG CGAAAACATA ACCAGAGCAT CAGGGTTGTT  1020
GTGGCTGTGT TTTTTACCTG CTTTCTACCA TATCACTTGT GCAGAATTCC TTTTACTTTT  1080
AGTCACTTAG ACAGGCTTTT AGATGAATCT GCACAAAAAA TCCTATATTA CTGCAAAGAA  1140
ATTACACTTT TCTTGTCTGC GTGTAATGTT TGCCTGGATC CAATAATTTA CTTTTTCATG  1200
TGTAGGTCAT TTTCAAGAAG GCTGTTCAAA AAATCAAATA TCAGAACCAG GAGTGAAAGC  1260
ATCAGATCAC TGCAAAGTGT GAGAAGATCG GAAGTTCGCA TATATTATGA TTACACTGAT  1320
GTGTAGGCCT TTTATTGTTT GTTGGAATCG ATATGTACAA AGTGTAAATA AATGTTTCTT  1380
TTCATTATCC TTAAAAAAAA AA
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Seq ID NO: 152 Protein sequence:
Protein Accession #: NP_076404

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1          11         21         31         41         51
|          |          |          |          |          |
MGFNLTLAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN    60
GLAVWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL   120
FYANMYTSIV FLGLISIDRY LKVVKPFGDS RMYSITFTKV LSVCVWVIMA VLSLPNIILT   180
NGQPTEDNIH DCSKLKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYIAIS RYIHKSSRQF   240
ISQSSRKRKH NQSIRVVVAV FFTCFLPYHL CRIPFTFSHL DRLLDESAQK ILYYCKEITL   300
FLSACNVCLD PIIYFFMCRS FSRRLFKKSN IRTRSESIRS LQSVRRSEVR IYYDYTDV
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Seq ID NO: 153 DNA sequence
Nucleic Acid Accession #: D80008.1
Coding sequence: 149-739

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1          11         21         31         41         51
|          |          |          |          |          |
GTTCGGCGCC AAAGCGCGGA GCGGAGGCCG AGGCGAGAGC CTGGCGCTGT AGGACTAGAA    60
CGAAAGGAGT GAGGCGCCGA GAGCCCAGAT ACCATTTTGG CGTGAGAGCT GGTGGTTGGC   120
AAGGCCGCGG GAGTGGGAAG CGTCCGCCAT GTTCTGCGAA AAAGCCATGG AACTGATCCG   180
CGAGCTGCAT CGCGCGCCCG AAGGGCAACT GCCTGCCTTC AACGAGGATG GACTCAGACA   240
AGTTCTGGAG GAGATGAAAG CTTTGTATGA ACAAAACCAG TCTGATGTGA ATGAAGCAAA   300
GTCAGGTGGA CGAAGTGATT TGATACCAAC TATCAAATTT CGACACTGTT CTCTGTTAAG   360
AAATCGACGC TGCACTGTAG CATACCTGTA TGACCGCTTG CTTCGGATCA GAGCACTCAG   420
ATGGGAATAT GGTAGCGTCT TGCCAAATGC ATTACGATTT CACATGGCTG CTGAAGAAAT   480
GGAGTGGTTT AATAATTATA AAAGATCTCT TGCTACTTAT ATGAGGTCAC TGGGAGGAGA   540
TGAAGGTTTG GACATTACAC AGGATATGAA ACCACCAAAA AGCCTATATA TTGAAGTCCG   600
GTGTCTAAAA GACTATGGAG AATTTGAAGT TGATGATGGC ACTTCAGTCC TATTAAAAAA   660
AAATAGCCAG CACTTTTTAC CTCGATGGAA ATGTGAGCAG CTGATCAGAC AAGGAGTCCT   720
GGAGCACATC CTGTCATGAC CATGCGCCGA GGCACTTCCA GGCTTCACTC AACTCATGGA   780
CTCCTCTGTA CTCACTCTCT CCACCACTCC CTTCACCTCC CTCTTTGATT TTAGAAGCTA   840
TAGACATTGT TTAAGATAAC TAAGAATACT TGGCTAAGAA GTATAATTTG CTAACTATTA   900
AGGACTTTCT TTTTTTAATG TTGTACACTA TTCTTCCTAC TCTTTTTTGG TTTTGGTTTT   960
GTTTTGTAGA GACTGTCTCA CTATGTTGCC CAAGCTGGTC TCAAACTCCT GGCCTCAAGC  1020
AGTCCTCCCA CCTTAGCTTC TCAAAGTGTT GAGATCACAG GCGTGAGCCA CTGCACCCGG  1080
CCCCTACTCC TTTTTCTAAT AAGCTGTATC TGTAATCACA GCATTCCTAC AGTTGTTACA  1140
GTGTGTTTTT TAAATGAAAG TAAACATGGT TACATTTGAA TCTCTTAAAT AAGCAGTCAC  1200
TTGGCTGGAC AGGAAGAAGG TAGATCCTGT GTGTCTTGTT TTCTGGTCAT GTGTATTGTA  1260
CAAGCTAGAG AGCTGAATTT CTGAGATACA CATTTTCAAA TCACATGCAA GTGAAGATGA  1320
TGGTCTGTAG AAATTTTCAG TATATATAAT GTTTAATGAC ATACTAATTT ATCATCTGGC  1380
TATTTGGGAA GGAAGGACAC ACATGGATTT TGCACATTTC CACCATGGTG GCTGGTGTGG  1440
CTTGTGGCTA TGGGGTGATC ACCAGTATCA CCACTTTGGA AGGGGACAGT GAAATTGGGG  1500
CTAGAGAAGG AACTTTGTAC AGTTTTCCCT GAGATTCAGA TTGACTGAAA AGTCACATGA  1560
AGAGTTGATT GTCTTTTAAT GGTATGTTTT AAACAGCTGA CATTTTAAAT TTTGATGAAA  1620
TCCAGTTTAT TCGTTTGTTC TTTTATGCTT TGGGTGTTGC ATCCGAGAAA TCTTTTCCCA  1680
TCCCAAGATC ACAATTTTTT TTCCTTTTTA CTTCTAGAAG TGTTATAATT TTAAGCTTTA  1740
TACTTTGGTC TATGACCCGT TTTTTTTTTT GTTTTGTTTT GTTTTTTCGT TTGTTTCTTT  1800
GTTTTGAGAT GGAGTCTTGT TCTGTCACCC AGGCTGGGGT GCAGTGGCGT GATCTTGGCT  1860
CACTGCAATC TCTATCCCCT GGGTTCAAGT GATTCTCTTG TCTCAGCCTC CCAAGTAGCT  1920
GGGATTACAG GCACAGGCCG CCACGCCTGG CTAATTTTTG TATTTTTAGT AGAGACAGAG  1980
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TTTTACCATG TTGGCCAGGC TGGTTTCAAA CTCCTGACCT CAAGTGACCC ACCTTGGCCT  2040
CCCAAAGTTT TGGGATTACA AGTGTGGGCC ACCGCGGCCA GCCTATGATC CATTTTGAAT  2100
GAATTTTTTA TATGGTGCAA GGTGTCAATC CACCTTCACT TTTTCTTGGG AATATAGATA  2160
TCCAGCTGTT TCACTACCAT TTTTTGAAAG GACTGCCCTT TGCTCTATCA CCTTTGCATT  2220
TTTGTTAAAA AGTAGTTGTC AATGTATATG TGGGTTTATT TCAGGACTCT GTTTTGTTCC  2280
ATTGACCTGT TTTTCTCTCC TGAATGCCAA TACCATATTT GTATGTAGTG TATGTAATTT  2340
TCTAATAATT CTTGAAACAG ATAGTATTAA TGTGTCATAT TTTTGCTGTT GTTTGTATTT  2400
TTTGTAGAGA TGGGGTTTCA CCGTGTTGGC CAGGCTGTGT TGAACTCCTG AGCTAAAGCA  2460
ATACACTTGC CTCGTCCTCC CCATGTGCTG GGATTACAGG CGTGAGCCTT GGTGCTGGCC  2520
CAGTGTACCA CATTTCTTTT TGAGATTTGT TTTGGCTATG TTAAGTCCTT TGCTTTTGAT  2580
GTGAAATTTG GGAACAGGCA GGGTGTGGTG GCTTATGCCT GTAATCCTAG AACTTTGGGA  2640
GGCCTAGATG GGTGGATCAC TTGAGCTCAG GAGTTCCAGA CCAGCCCGGG CCTATGGCAA  2700
AACTCCGTCT CTACAAAAAA TAGAAAAAAT TAGCCAGGTG TGGTGGTGCA TGCCTGTAGT  2760
CACAGTTACA CGGCAGGCTG AGGTGGGAGG ATCACTTGAA CCCCAGAGGT CAAGACTGCA  2820
GTGAGCTGAG ATCACACCAC TGTACTCCAG CCTGGGTGAC AAAGTGAGAC TCTATCTCAA  2880
AAAGAAATTA GGATCAATTT GTCAATTTCT ACAACAACAA CAACAAAAAC CCCTGTTGGG  2940
CACCTTGATT GAGATTGCAT TGAATTTATA TAAAACTGTT GGGAGAATTG ACATCTTAAT  3000
AATATTGAGT CTTCTGGCCT ATAAACAAGG TCTGTCTTCC TAGGTATTAA TGTTTTGTCT  3060
TCTATTTCTC TTAATAATCT TTTGTAGTTT TCAGTGTACA GGTCTACCAT GTCAGCATTT  3120
CATAGTTTTG ATGCTAAATG GTATTTTAAA ATTTCAAATT CTAACCACTT GTTGCTAGTA  3180
AATAGAAATA CAATTGATGT TGAACTTGTA TCCTTCAGCC TTGCTAAACT GTGAGTTCTC  3240
ATGGTGTTTT TGTAAATTAC ATCAACAGTC ATGTGTTCTA TGAATAAAGA GTTTTACTCC  3300
TTC
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Seq ID NO: 154 Protein sequence:
Protein Accession #: BAA11503.1

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1           11          21          31          41          51
|           |           |           |           |           |
MFCEKAMELI RELHRAPEGQ LPAFNEDGLR QVLEEMKALY EQNQSDVNEA KSGGRSDLIP    60
TIKFRHCSLL RNRRCTVAYL YDRLLRIRAL RWEYGSVLPN ALRFHMAAEE MEWFNNYKRS   120
LATYMRSLGG DEGLDITQDM KPPKSLYIEV RCLKDYGEFE VDDGTSVLLK KNSQHFLPRW   180
KCEQLIRQGV LEHILS
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Seq ID NO: 155 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 149-709

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1           11          21          31          41          51
|           |           |           |           |           |
GTTCGGCGCC AAAGCGCGGA GCGGAGGCCG AGGCGAGAGC CTGGCGCTGT AGGACTAGAA    60
CGAAAGGAGT GAGGCGCCGA GAGCCCAGAT ACCATTTTGG CGTGAGAGCT GGTGGTTGGC   120
AAGGCCGCGG GAGTGGGAAG CGTCCGCCAT GTTCTGCGAA AAAGCCATGG AACTGATCCG   180
CGAGCTGCAT CGCGCGCCCG AAGGGCAACT GCCTGCCTTC AACGAGGATG GACTCAGACA   240
AGTTCTGGAG GAGATGAAAG CTTTGTATGA ACAAAACCAG TCTGATGTGA ATGAAGCAAA   300
GTCAGGTGGA CGAAGTGATT TGATACCAAC TATCAAATTT CGACACTGTT CTCTGTTAAG   360
AAATCGACGC TGCACTGTAG CATACCTGTA TGACCGCTTG CTTCGGATCA GAGCACTCAG   420
ATGGGAATAT GGTAGCGTCT TGCCAAATGC ATTACGATTT CACATGGCTG CTGAAGAAAT   480
GGAGTGGTTT AATAATTATA AAAGATCTCT TGCTACTTAT ATGAGGTCAC TGGGAGGAGA   540
TGAAGGTTTG GACATTACAC AGGATATGAA ACCACCAAAA AGCCTATATA TTGAAGCTGG   600
ATGCAGTGGC GCGATCTCGG CTCAACCTGC AACCTCCACC TCCCAGGTTC ACCTCAACTG   660
CAACCTCCAC CTCCCAGGTC CGGTGTCTAA AAGACTATGG AGAATTTGAA GTTGATGATG   720
GCACTTCAGT CCTATTAAAA AAAAATAGCC AGCACTTTTT ACCTCGATGG AAATGTGAGC   780
AGCTGATCAG ACAAGGAGTC CTGGAGCACA TCCTGTCATG ACCATGCGCC GAGGCACTTC   840
CAGGCTTCAC TCAACTCATG GACTCCTCTG TACTCACTCT CTCCACCACT CCCTTCACCT   900
CCCTCTTTGA TTTTAGAAGC TATAGACATT GTTTAAGATA ACTAAGAATA CTTGGCTAAG   960
AAGTATAATT TGCTAACTAT TAAGGACTTT CTTTTTTTAA TGTTGTACAC TATTCTTCCT  1020
ACTCTTTTTT GGTTTTGGTT TTGTTTTGTA GAGACTGTCT CACTATGTTG CCCAAGCTGG  1080
TCTCAAACTC CTGGCCTCAA GCAGTCCTCC CACCTTAGCT TCTCAAAGTG TTGAGATCAC  1140
AGGCGTGAGC CACTGCACCC GGCCCCTACT CCTTTTTCTA ATAAGCTGTA TCTGTAATCA  1200
CAGCATTCCT ACAGTTGTTA CAGTGTGTTT TTTAAATGAA AGTAAACATG GTTACATTTG  1260
AATCTCTTAA ATAAGCAGTC ACTTGGCTGG ACAGGAAGAA GGTAGATCCT GTGTGTCTTG  1320
TTTTCTGGTC ATGTGTATTG TACAAGCTAG AGAGCTGAAT TTCTGAGATA CACATTTTCA  1380
AATCACATGC AAGTGAAGAT GATGGTCTGT AGAAATTTTC AGTATATATA ATGTTTAATG  1440
ACATACTAAT TTATCATCTG GCTATTTGGG AAGGAAGGAC ACACATGGAT TTTGCACATT  1500
TCCACCATGG TGGCTGGTGT GGCTTGTGGC TATGGGGTGA TCACCAGTAT CACCACTTTG  1560
GAAGGGGACA GTGAAATTGG GGCTAGAGAA GGAACTTTGT ACAGTTTTCC CTGAGATTCA  1620
GATTGACTGA AAAGTCACAT GAAGAGTTGA TTGTCTTTTA ATGGTATGTT TTAAACAGCT  1680
GACATTTTAA ATTTTGATGA AATCCAGTTT ATTCGTTTGT TCTTTTATGC TTTGGGTGTT  1740
GCATCCGAGA AATCTTTTCC CATCCCAAGA TCACAATTTT TTTTCCTTTT TACTTCTAGA  1800
AGTGTTATAA TTTTAAGCTT TATACTTTGG TCTATGACCC GTTTTTTTTT TTGTTTTGTT  1860
TTGTTTTTTC GTTTGTTTCT TTGTTTTGAG ATGGAGTCTT GTTCTGTCAC CCAGGCTGGG  1920
GTGCAGTGGC GTGATCTTGG CTCACTGCAA TCTCTATCCC CTGGGTTCAA GTGATTCTCT  1980
TGTCTCAGCC TCCCAAGTAG CTGGGATTAC AGGCACAGGC CGCCACGCCT GGCTAATTTT  2040
TGTATTTTTA GTAGAGACAG AGTTTTACCA TGTTGGCCAG GCTGGTTTCA AACTCCTGAC  2100
CTCAAGTGAC CCACCTTGGC CTCCCAAAGT TTTGGGATTA CAAGTGTGGG CCACCGCGGC  2160
CAGCCTATGA TCCATTTTGA ATGAATTTTT TATATGGTGC AAGGTGTCAA TCCACCTTCA  2220
CTTTTTCTTG GGAATATAGA TATCCAGCTG TTTCACTACC ATTTTTTGAA AGGACTGCCC  2280
TTTGCTCTAT CACCTTTGCA TTTTTGTTAA AAAGTAGTTG TCAATGTATA TGTGGGTTTA  2340
TTTCAGGACT CTGTTTTGTT CCATTGACCT GTTTTTCTCT CCTGAATGCC AATACCATAT  2400
TTGTATGTAG TGTATGTAAT TTTCTAATAA TTCTTGAAAC AGATAGTATT AATGTGTCAT  2460
ATTTTTGCTG TTGTTTGTAT TTTTTGTAGA GATGGGGTTT CACCGTGTTG GCCAGGCTGT  2520
GTTGAACTCC TGAGCTAAAG CAATACACTT GCCTCGTCCT CCCCATGTGC TGGGATTACA  2580
GGCGTGAGCC TTGGTGCTGG CCCAGTGTAC CACATTTCTT TTTGAGATTT GTTTTGGCTA  2640
TGTTAAGTCC TTTGCTTTTG ATGTGAAATT TGGGAACAGG CAGGGTGTGG TGGCTTATGC  2700
CTGTAATCCT AGAACTTTGG GAGGCCTAGA TGGGTGGATC ACTTGAGCTC AGGAGTTCCA  2760
GACCAGCCCG GGCCTATGGC AAAACTCCGT CTCTACAAAA AATAGAAAAA ATTAGCCAGG  2820
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TGTGGTGGTG CATGCCTGTA GTCACAGTTA CACGGCAGGC TGAGGTGGGA GGATCACTTG  2880
AACCCCAGAG GTCAAGACTG CAGTGAGCTG AGATCACACC ACTGTACTCC AGCCTGGGTG  2940
ACAAAGTGAG ACTCTATCTC AAAAAGAAAT TAGGATCAAT TTGTCAATTT CTACAACAAC  3000
AACAACAAAA ACCCCTGTTG GGCACCTTGA TTGAGATTGC ATTGAATTTA TATAAAACTG  3060
TTGGGAGAAT TGACATCTTA ATAATATTGA GTCTTCTGGC CTATAAACAA GGTCTGTCTT  3120
CCTAGGTATT AATGTTTTGT CTTCTATTTC TCTTAATAAT CTTTTGTAGT TTTCAGTGTA  3180
CAGGTCTACC ATGTCAGCAT TTCATAGTTT TGATGCTAAA TGGTATTTTA AAATTTCAAA  3240
TTCTAACCAC TTGTTGCTAG TAAATAGAAA TACAATTGAT GTTGAACTTG TATCCTTCAG  3300
CCTTGCTAAA CTGTGAGTTC TCATGGTGTT TTTGTAAATT ACATCAACAG TCATGTGTTC  3360
TATGAATAAA GAGTTTTACT CCTTC
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Seq ID NO: 156 Protein sequence:
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
MFCEKAMELI RELHRAPEGQ LPAFNEDGLR QVLEEMKALY EQNQSDVNEA KSGGRSDLIP    60
TIKFRHCSLL RNRRCTVAYL YDRLLRIRAL RWEYGSVLPN ALRFHMAAEE MEWFNNYKRS   120
LATYMRSLGG DEGLDITQDM KPPKSLYIEA GCSGAISAQP ATSTSQVHLN CNLHLPGPVS   180
KRLWRI
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Seq ID NO: 157 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 148-621

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1           11          21          31          41          51
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GAAAGGAGTG AGGCGCCGAG AGCCCAGATA CCATTTTGGC GTGAGAGCTG GTGGTTGGCA   120
AGGCCGCGGG AGTGGGAAGC GTCCGCCATG TTCTGCGAAA AAGCCATGGA ACTGATCCGC   180
GAGCTGCATC GCGCGCCCGA AGGGCAACTG CCTGCCTTCA ACGAGGATGG ACTCAGACAA   240
GTTCTGGAGG AGATGAAAGC TTTGTATGAA CAAAACCAGT CTGATGTGAA TGAAGCAAAG   300
TCAGGTGGAC GAAGTGATTT GATACCAACT ATCAAATTTC GACACTGTTC TCTGTTAAGA   360
AATCGACGCT GCACTGTAGC ATACCTGTAT GACCGCTTGC TTCGGATCAG AGCACTCAGA   420
TGGGAATATG GTAGCGTCTT GCCAAATGCA TTACGATTTC ACATGGCTGC TGAAGAAGTC   480
CGGTGTCTAA AAGACTATGG AGAATTTGAA GTTGATGATG GCACTTCAGT CCTATTAAAA   540
AAAAATAGCC AGCACTTTTT ACCTCGATGG AAATGTGAGC AGCTGATCAG ACAAGGAGTC   600
CTGGAGCACA TCCTGTCATG ACCATGCGCC GAGGCACTTC CAGGCTTCAC TCAACTCATG   660
GACTCCTCTG TACTCACTCT CTCCACCACT CCCTTCACCT CCCTCTTTGA TTTTAGAAGC   720
TATAGACATT GTTTAAGATA ACTAAGAATA CTTGGCTAAG AAGTATAATT TGCTAACTAT   780
TAAGGACTTT CTTTTTTTAA TGTTGTACAC TATTCTTCCT ACTCTTTTTT GGTTTTGGTT   840
TTGTTTTGTA GAGACTGTCT CACTATGTTG CCCAAGCTGG TCTCAAACTC CTGGCCTCAA   900
GCAGTCCTCC CACCTTAGCT TCTCAAAGTG TTGAGATCAC AGGCGTGAGC CACTGCACCC   960
GGCCCCTACT CCTTTTTCTA ATAAGCTGTA TCTGTAATCA CAGCATTCCT ACAGTTGTTA  1020
CAGTGTGTTT TTTAAATGAA AGTAAACATG GTTACATTTG AATCTCTTAA ATAAGCAGTC  1080
ACTTGGCTGG ACAGGAAGAA GGTAGATCCT GTGTGTCTTG TTTTCTGGTC ATGTGTATTG  1140
TACAAGCTAG AGAGCTGAAT TTCTGAGATA CACATTTTCA AATCACATGC AAGTGAAGAT  1200
GATGGTCTGT AGAAATTTTC AGTATATATA ATGTTTAATG ACATACTAAT TTATCATCTG  1260
GCTATTTGGG AAGGAAGGAC ACACATGGAT TTTGCACATT TCCACCATGG TGGCTGGTGT  1320
GGCTTGTGGC TATGGGGTGA TCACCAGTAT CACCACTTTG GAAGGGGACA GTGAAATTGG  1380
GGCTAGAGAA GGAACTTTGT ACAGTTTTCC CTGAGATTCA GATTGACTGA AAAGTCACAT  1440
GAAGAGTTGA TTGTCTTTTA ATGGTATGTT TTAAACAGCT GACATTTTAA ATTTTGATGA  1500
AATCCAGTTT ATTCGTTTGT TCTTTTATGC TTTGGGTGTT GCATCCGAGA AATCTTTTCC  1560
CATCCCAAGA TCACAATTTT TTTTCCTTTT TACTTCTAGA AGTGTTATAA TTTTAAGCTT  1620
TATACTTTGG TCTATGACCC GTTTTTTTTT TTGTTTTGTT TTGTTTTTTC GTTTGTTTCT  1680
TTGTTTTGAG ATGGAGTCTT GTTCTGTCAC CCAGGCTGGG GTGCAGTGGC GTGATCTTGG  1740
CTCACTGCAA TCTCTATCCC CTGGGTTCAA GTGATTCTCT TGTCTCAGCC TCCCAAGTAG  1800
CTGGGATTAC AGGCACAGGC CGCCACGCCT GGCTAATTTT TGTATTTTTA GTAGAGACAG  1860
AGTTTTACCA TGTTGGCCAG GCTGGTTTCA AACTCCTGAC CTCAAGTGAC CCACCTTGGC  1920
CTCCCAAAGT TTTGGGATTA CAAGTGTGGG CCACCGCGGC CAGCCTATGA TCCATTTTGA  1980
ATGAATTTTT TATATGGTGC AAGGTGTCAA TCCACCTTCA CTTTTTCTTG GGAATATAGA  2040
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TTTTTGTTAA AAAGTAGTTG TCAATGTATA TGTGGGTTTA TTTCAGGACT CTGTTTTGTT  2160
CCATTGACCT GTTTTTCTCT CCTGAATGCC AATACCATAT TTGTATGTAG TGTATGTAAT  2220
TTTCTAATAA TTCTTGAAAC AGATAGTATT AATGTGTCAT ATTTTTGCTG TTGTTTGTAT  2280
TTTTTGTAGA GATGGGGTTT CACCGTGTTG GCCAGGCTGT GTTGAACTCC TGAGCTAAAG  2340
CAATACACTT GCCTCGTCCT CCCCATGTGC TGGGATTACA GGCGTGAGCC TTGGTGCTGG  2400
CCCAGTGTAC CACATTTCTT TTTGAGATTT GTTTTGGCTA TGTTAAGTCC TTTGCTTTTG  2460
ATGTGAAATT TGGGAACAGG CAGGGTGTGG TGGCTTATGC CTGTAATCCT AGAACTTTGG  2520
GAGGCCTAGA TGGGTGGATC ACTTGAGCTC AGGAGTTCCA GACCAGCCCG GGCCTATGGC  2580
AAAACTCCGT CTCTACAAAA AATAGAAAAA ATTAGCCAGG TGTGGTGGTG CATGCCTGTA  2640
GTCACAGTTA CACGGCAGGC TGAGGTGGGA GGATCACTTG AACCCCAGAG GTCAAGACTG  2700
CAGTGAGCTG AGATCACACC ACTGTACTCC AGCCTGGGTG ACAAAGTGAG ACTCTATCTC  2760
AAAAAGAAAT TAGGATCAAT TTGTCAATTT CTACAACAAC AACAACAAAA ACCCCTGTTG  2820
GGCACCTTGA TTGAGATTGC ATTGAATTTA TATAAAACTG TTGGGAGAAT TGACATCTTA  2880
ATAATATTGA GTCTTCTGGC CTATAAACAA GGTCTGTCTT CCTAGGTATT AATGTTTTGT  2940
CTTCTATTTC TCTTAATAAT CTTTTGTAGT TTTCAGTGTA CAGGTCTACC ATGTCAGCAT  3000
TTCATAGTTT TGATGCTAAA TGGTATTTTA AAATTTCAAA TTCTAACCAC TTGTTGCTAG  3060
TAAATAGAAA TACAATTGAT GTTGAACTTG TATCCTTCAG CCTTGCTAAA CTGTGAGTTC  3120
TCATGGTGTT TTTGTAAATT ACATCAACAG TCATGTGTTC TATGAATAAA GAGTTTTACT  3180
CCTTC
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Seq ID NO: 158 Protein sequence:
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
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MFCEKAMELI RELHRAPEGQ LPAFNEDGLR QVLEEMKALY EQNQSDVNEA KSGGRSDLIP    60
TIKFRHCSLL RNRRCTVAYL YDRLLRIRAL RWEYGSVLPN ALRFHMAAEE VRCLKDYGEF   120
EVDDGTSVLL KKNSQHFLPR WKCEQLIRQG VLEHILS
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Seq ID NO: 159 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 149-229

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1           11          21          31          41          51
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GTTCGGCGCC AAAGCGCGGA GCGGAGGCCG AGGCGAGAGC CTGGCGCTGT AGGACTAGAA    60
CGAAAGGAGT GAGGCGCCGA GAGCCCAGAT ACCATTTTGG CGTGAGAGCT GGTGGTTGGC   120
AAGGCCGCGG GAGTGGGAAG CGTCCGCCAT GTTCTGCGAA AAAGCCATGG AACTGATCCG   180
CGAGCTGCAT CGCGCGCCCG AAGGGCAACT GCCTGCCTTC AACAATTAGC TGGGTGTGGT   240
GGCACACACC TGTAGTCCCA GCAACTTAGG AGGCTGAAGT GAGAGGATTG CATGGCTCCA   300
GGAAGTTGAA ACTGCAGTGA ACTGTGGTCA CGCTATTACA CTCCAGCCTG GGTGACAGAC   360
TGAATCCCTG TCTCAAAAAG GAAAAGGAGG ATGGACTCAG ACAAGTTCTG GAGGAGATGA   420
AAGCTTTGTA TGAACAAAAC CAGTCTGATG TGTTCTCTGT TAAGAAATCG ACGCTGCACT   480
GTAGCATACC TGTATGACCG CTTGCTTCGG ATCAGAGCAC TCAGATGG
```

Seq ID NO: 160 Protein sequence:
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
ATGTTCTGCG AAAAAGCCAT GGAACTGATC CGCGAGCTGC ATCGCGCGCC CGAAGGGCAA    60
CTGCCTGCCT TCAACAATTA G
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Seq ID NO: 161 DNA sequence
Nucleic Acid Accession #: U10694
Coding sequence: 1333-2280

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1           11          21          31          41          51
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GGATCCGGCC GGATCTCAGG GAGGTGAGGA CTTTGTTCTC AGAGGGTGTG TGTGGACAAA    60
ACAGGGAGGC CCTGTGTTCG ACAGACACAG TGGTCCCAGG ATTGGAGAGC AGTCCAGGTG   120
AGGAACCTAA GGGAGGATCG AGGGTACCTC CAGGCCAGAG AAACTCTCAG ATCAAGAGAG   180
TTTGCCCTGC CCCTACTGTC ACCCCAGAGA GCCCGGGCAG GGCTGTCTGC TGAGGTCCCT   240
CCTTTATCCT GGGATCACTG GTGTCGGGGA GGGCTGGCCT TGGTCTGAGG GGGCTGCACT   300
CACGTCAGCA GAGGGAGGGT CCCAGGCCCT GCCAGGAGTC CAGGTGCAGA CTGAGGGGAC   360
CCCACTCACC AAACACAGAG GACCTAGCCC CACCCTGCCC CTTGTGTCAG CTGAGGGAAG   420
CCGCTGGGTG GATGGACTCC CCTCACTTCC TCTTCAGGTG TCTCCTGGAG ATAGGGCCTC   480
AGGTCAACAG AGGGAGGGTT CCAGACCCTG CAGGCATCAA GATGAGGACC AGGCAGTATC   540
CTCACCCCAG GACACATGGA CCCCATTGAA TTTAGACATC TCTTACTGTA CTTCCGAGGA   600
AACCCTGGGC AGGTGTGGGC AGATGTTGGT TGGGGCATGT CCTTCTGTTC CATATCAGGG   660
ATGTGAGCTC CTGATCTGAG AGACTCTCAG GCAAGTAGAG GAGTAGAGTC CAGTCCCTGC   720
CAGGAGAAAG GTCAGGGCCC TGAGTGAGCG CAGAGGGGAC CATCCACCCC AAAAGTGTGT   780
AGAACTCAAG AGTGTCCAGC CCGCCCTCTT GACAGCACTG AGGGACCGGG GCTCTGCCTG   840
CAGTCTGCAG CCTAAGGGCC CCTCGATTCC TCTTCCAGGA GCTCCAGGAA GCAGGCAGGC   900
CTTGGTCTGA GACAGTGTCC TCAGGTCGCA GAGCAGAGGA GACCCAGGCA GTGTCAGCAG   960
TGAAGGTGAA GTGTTCACCC TGAATGTGCA CCAAGGGCCC CACCTGCCCC AGCACACATG  1020
GGACCCCATA GCACCTGGCC CCATTCCCCC TACTGTCACT CATAGAGCCT TGATCTCTGC  1080
AGGCTAGCTG CACGCTGAGT AGCCCTCTCA CTTCCTCCCT CAGGTTCTCG GGACAGGCTA  1140
ACCAGGAGGA CAGGAGCCCC AAGAGGCCCC AGAGCAGCAC TGACGAAGAC CTGTAAGTCA  1200
GCCTTTGTTA GAACCTCCAA GGTTCGGTTC TCAGCTGAAG TCTCTCACAC ACTCCCTCTC  1260
TCCCCAGGCC TGTGGGTCTC CATCGCCCAG CTCCTGCCCA CGCTCCTGAC TGCTGCCCTG  1320
ACCAGAGTCA TCATGTCTCT CGAGCAGAGG AGTCCGCACT GCAAGCCTGA TGAAGACCTT  1380
GAAGCCCAAG GAGAGGACTT GGGCCTGATG GGTGCACAGG AACCCACAGG CGAGGAGGAG  1440
GAGACTACCT CCTCCTCTGA CAGCAAGGAG GAGGAGGTGT CTGCTGCTGG GTCATCAAGT  1500
CCTCCCCAGA GTCCTCAGGG AGGCGCTTCC TCCTCCATTT CCGTCTACTA CACTTTATGG  1560
AGCCAATTCG ATGAGGGCTC CAGCAGTCAA GAAGAGGAAG AGCCAAGCTC CTCGGTCGAC  1620
CCAGCTCAGC TGGAGTTCAT GTTCCAAGAA GCACTGAAAT TGAAGGTGGC TGAGTTGGTT  1680
CATTTCCTGC TCCACAAATA TCGAGTCAAG GAGCCGGTCA CAAAGGCAGA AATGCTGGAG  1740
AGCGTCATCA AAAATTACAA GCGCTACTTT CCTGTGATCT TCGGCAAAGC CTCCGAGTTC  1800
ATGCAGGTGA TCTTTGGCAC TGATGTGAAG GAGGTGGACC CCGCCGGCCA CTCCTACATC  1860
CTTGTCACTG CTCTTGGCCT CTCGTGCGAT AGCATGCTGG GTGATGGTCA TAGCATGCCC  1920
AAGGCCGCCC TCCTGATCAT TGTCCTGGGT GTGATCCTAA CCAAAGACAA CTGCGCCCCT  1980
GAAGAGGTTA TCTGGGAAGC GTTGAGTGTG ATGGGGGTGT ATGTTGGGAA GGAGCACATG  2040
TTCTACGGGG AGCCCAGGAA GCTGCTCACC CAAGATTGGG TGCAGGAAAA CTACCTGGAG  2100
TACCGGCAGG TGCCCGGCAG TGATCCTGCG CACTACGAGT TCCTGTGGGG TTCCAAGGCC  2160
CACGCTGAAA CCAGCTATGA GAAGGTCATA AATTATTTGG TCATGCTCAA TGCAAGAGAG  2220
CCCATCTGCT ACCCATCCCT TTATGAAGAG GTTTTGGGAG AGGAGCAAGA GGGAGTCTGA  2280
GCACCAGCCG CAGCCGGGGC CAAAGTTTGT GGGGTCAGGG CCCCATCCAG CAGCTGCCCT  2340
GCCCCATGTG ACATGAGGCC CATTCTTCGC TCTGTGTTTG AAGAGAGCAA TCAGTGTTCT  2400
CAGTGGCAGT GGGTGGAAGT GAGCACACTG TATGTCATCT CTGGGTTCCT TGTCTATTGG  2460
GTGATTTGGA GATTTATCCT TGCTCCCTTT TGGAATTGTT CAAATGTTCT TTTAATGGTC  2520
AGTTTAATGA ACTTCACCAT CGAAGTTAAT GAATGACAGT AGTCACACAT ATTGCTGTTT  2580
ATGTTATTTA GGAGTAAGAT TCTTGCTTTT GAGTCACATG GGGAAATCCC TGTTATTTTG  2640
TGAATTGGGA CAAGATAACA TAGCAGAGGA ATTAATAATT TTTTTGAAAC TTGAACTTAG  2700
CAGCAAAATA GAGCTCATAA AGAAATAGTG AAATGAAAAT GTAGTTAATT CTTGCCTTAT  2760
ACCTCTTTCT CTCTCCTGTA AAATTAAAAC ATATACATGT ATACCTGGAT TTGCTTGGCT  2820
TCTTTGAGCA TGTAAGAGAA ATAAAAATTG AAAGAATAAT TTTTCCTGTT CACTGGCTCA  2880
TTTTTTCTTC AGACACGCAC TGAACATCTG TTATTCGGAA CACCCTGGGT T
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Seq ID NO: 162 Protein sequence:
Protein Accession #: AAA68877.1

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1           11          21          31          41          51
|           |           |           |           |           |
MSLEQRSPHC KPDEDLEAQG EDLGLMGAQE PTGEEEETTS SSDSKEEEVS AAGSSSPPQS    60
PQGGASSSIS VYYTLWSQFD EGSSSQEEEE PSSSVDPAQL EFMFQEALKL KVAELVHFLL   120
HKYRVKEPVT KAEMLESVIK NYKRYFPVIF GKASEFMQVI FGTDVKEVDP AGHSYILVTA   180
LGLSCDSMLG DGHSMPKAAL LIIVLGVILT KDNCAPEEVI WEALSVMGVY VGKEHMFYGE   240
PRKLLTQDWV QENYLEYRQV PGSDPAHYEF LWGSKAHAET SYEKVINYLV MLNAREPICY   300
PSLYEEVLGE EQEGV
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Seq ID NO: 163 DNA sequence
Nucleic Acid Accession #: AF292100
Coding sequence: 30-809

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AAGTTCGTCA GTTTATGATC TTCACACAAT CTAGTGAAAA AACAGCAGTA AGTTGTCTTT    120
CTCAAAATGA CTGGAAGTTA GATGTTGCAA CAGATAATTT TTTCCAAAAT CCTGAACTTT    180
ATATACGAGA GAGTGTAAAA GGATCATTGG ACAGGAAGAA GTTAGAACAG CTGTACAATA    240
GATACAAAGA CCCTCAAGAT GAGAATAAAA TTGGAATAGA TGGCATACAG CAGTTCTGTG    300
ATGACCTGGC ACTCGATCCA GCCAGCATTA GTGTGTTGAT TATTGCGTGG AAGTTCAGAG    360
CAGCAACACA GTGCGAGTTC TCCAAACAGG AGTTCATGGA TGGCATGACA GAATTAGGAT    420
GTGACAGCAT AGAACAACTA AAGGCCCAGA TACCCAAGAT GGAACAAGAA TTGAAAGAAC    480
CAGGACGATT TAAGGATTTT TACCAGTTTA CTTTTAATTT TGCAAAGAAT CCAGGACAAA    540
AAGGATTAGA TCTAGAAATG GCCATTGCCT ACTGGAACTT AGTGCTTAAT GGAAGATTTA    600
AATTCTTAGA CTTATGGAAT AAATTTTTGT TGGAACATCA TAAACGATCA ATACCAAAAG    660
ACACTTGGAA TCTTCTTTTA GACTTCAGTA CGATGATTGC AGATGACATG TCTAATTATG    720
ATGAAGAAGG AGCATGGCCT GTTCTTATTG ATGACTTTGT GGAATTTGCA CGCCCTCAAA    780
TTGCTGGGAC AAAAAGTACA ACAGTGTAGC ACTAAAGGAA CCTTTTAGAA TGTACATAGT    840
CTGTACAATA AATACAACAG AAAATTGCAC AGTCAATTTC TGCTGGCTGG ACTGAACTGA    900
AGATCAATCC TCACAATTCA GACTGAGGGT TGAGACAAAA CTTTAAGGAT ACATCTTGGA    960
CCATATCGTA TTTCATTCTT CTAATGGTGG TTTGGGCTTG TCTTCTAGTC TGGGCCGCTC   1020
TAAACATTTA TAATTCCAAC ATTGTGGATT TCATCTTATA TCTGTGGACC ATCCTAGTTT   1080
ATTCTCCCAT AAGTCTTAGA AGCTTTATGG TGATTATTTT GAGGTTTTCA TTCTCGCATA   1140
AAGCACAATG CTGTCTTCAT CAGAAAACAG TTGGCATAAG AATTAAACAT ATGAACATCA   1200
CAAAACAATT TATAAAAACT TCTTAAATAT ACGCTTTGGG CTAGTTGCAA AGACTATGCT   1260
AATAGCACTT CCAGTGAGAG TGATATATTT AAGTGTACTG GATCTGGAAT GGTGTTTTGG   1320
TTTGGGGGGA ATTTTTTTTT TTTCCTGGCA AATCACATAT GTTGTTGATG TGAGTATCTG   1380
ATGAAAAAAC AATGTCAGAA TAACCGACAT GAAAATTTTT TAGGATAACT TGGTGCCTAC   1440
CTGAAAAATG TATTGTGTTT TAGACTCTTG ATTTCAAAAG GTTCCACAGA ACTAGTCTGC   1500
GCTTACCTTA CCCATGTTTA TATATAGCTG TCCTACAGGG AGCTTTTATT TAGAAAATGT   1560
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TGCTTTTGAA ATGCTTATCT GCCTGTCACA TAAGTTAAAC TATTTAATTT GTTTTGAATG   1680
TTTTGGATTG CTACACAATA CAATATTCTA AATTTAGGCA TGAGGGTTTT TTTGTTTTAT   1740
TTTTACTTTT TTTTTGTCAT TGCACTATGG AACACAAATG AAATTCTCTT AATTTATAAG   1800
AAGATAGTAG GAGTTAAATT TTGAAAATGG TTGTGATGAG CCACGAAATT CAATCTTTAT   1860
AATATAGGTA CTGCTCTTTC AGACAAACAG TCCATTTTTA ATGACTTCTT ATTTTGTTGA   1920
AATTACTTTA ACTGCTAATC ACTGTGGTTG CCAAATATTT ACTTCAGAAG CAAAGATTTT   1980
CAAACAAGCA TACACGATGC AAAATACCAG TCTGGCTTCT AGTCTATTTA CTGTTTTGTT   2040
TCACTCAGAT TAGCTCAGTT TTCTCATCAA AGCAGAATGC TATCTTGCGT GTGTGTGTGT   2100
GTGTGTGTGT GTGTGTGTGT GTATGTGTGT ATATATATAT ATATATATAT ATATATATTT   2160
TTTTTTTTTT TTTTTTTTAA ATTACAAAAG CCATGAGCTG CTTTTATGCT GAAAATGGTC   2220
ATTTCCCTGT TCACTTACTG ACATGTGAAG AAGGGTTTCT TGCTTTCTTA AACATTTCCG   2280
TAAGGCAGGC TAGAAATGTA ATACTTCAAA TGTTTGATGA TTATGGTCTT TTGATAGGAA   2340
TAGATTCTGC TTGGGATATA TATCCAGGCA CTCTCTAAGG TCTAGGGTTG ATATTAACAA   2400
AGGAATGTAC TTAGAATAGC AGTACATTTT ATGCAAATAT GGAAATTATT TTAAGAAACA   2460
ATGACATATC AAAACTGCTT TTTACATGAT TTTGAAATAG ACTAGAAAGC TTTCCCTATA   2520
GACATATTAA TATTCCAATC ATAACTTTAA TTCAAGAATG CAGTTTTACC AAAAGAAAAA   2580
TTTGAAAATT TCTATTCAGG CTACTGGAAT TGGTTATTAA AAGAAAAAGG AAAAAGAAGA   2640
ATCTTGCTGC TTTCAGTATT TCCTGATTTT TTTGTAAATA TAAAGAGGAA CTTCAATTAT   2700
GAAAAATTTT TAAAAGATAT ATATATCTAT ATATCTATAT ATATGTACTG TTTTGTTTCC   2760
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TAAAAGTTAA GGTTGTTCAC TATGATGGCA TCTTAGAATT AAACAAAACT TTTACTAGGG   3060
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AGGGAATATT TTGTACTAAA AAATGATTAC ACATATGGCT GTGTGTGTTT GAGTCTGTGT   3180
CTGTGAGAGA GCCAGAGAGA GTGAGAGAGA TTGACAGAGA AAGGGAGAGA CACACACACG   3240
CCCCTTGAAT TGCTTTAACT CCTAAGTGTT TCAGTCCTCA TTCCGGTAAA CTCCCCATGC   3300
TGATTCTTTG TTTTAAACTG AACCATAGGT ACAGTTTCCT TTTTGCCAAA TGTCAAAACA   3360
GGTACAAATT TTAAAATGTA ATGCTTTTTA AATAGAAAAA TGTATAAAAT TAGAAGTGCC   3420
CACATATAAA AAATACTTGA GATGAAGATT ATCTTTAGTG AATATCATCT GCATATCTCT   3480
GTAAGTTCAA TTGTGTTTCT TACAGTCCCT GTCATATTAC CAACAGAGGC AATAAAAGCT   3540
GCAGTGAAAT TG
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Seq ID NO: 164 Protein sequence:
Protein Accession #: AAG00606

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DRKKLEQLYN RYKDPQDENK IGIDGIQQFC DDLALDPASI SVLIIAWKFR AATQCEFSKQ   120
EFMDGMTELG CDSIEQLKAQ IPKMEQELKE PGRFKDFYQF TFNFAKNPGQ KGLDLEMAIA   180
YWNLVLNGRF KFLDLWNKFL LEHHKRSIPK DTWNLLLDFS TMIADDMSNY DEEGAWPVLI   240
DDFVEFARPQ IAGTKSTTV
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Seq ID NO: 165 DNA sequence
Nucleic Acid Accession #: AF256215
Coding sequence: 220-2028

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1           11          21          31          41          51
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GCCTACGGGC TGCGGTGGCG GCCGCCGCGG CACCCGGCAG GGCCCGCCAG TCCCCGCTTC   120
CCTGCTCCAG AGCCGCCGCC TGGGCCGGGG CAGGGCGGGC CCGGGGCTCC TCCATGCTGC   180
CAGCCGCCGG GCTGCGGAGC CGACCAAGTG GCTCCTGCGA TGGCGGCGGA AGAGGAGGCT   240
GCGGCGGGAG GTAAAGTGTT GAGAGAGGAG AACCAGTGCA TTGCTCCTGT GGTTTCCAGC   300
CGCGTGAGTC CAGGGACAAG ACCAACAGCT ATGGGGTCTT TCAGCTCACA CATGACAGAG   360
TTTCCACGAA AACGCAAAGG AAGTGATTCA GACCCATCCC AAGTGGAAGA TGGTGAACAC   420
CAAGTTAAAA TGAAGGCCTT CAGAGAAGCT CATAGCCAAA CTGAAAAGCG GAGGAGAGAT   480
AAAATGAATA ACCTGATTGA AGAACTGTCT GCAATGATCC CTCAGTGCAA CCCCATGGCG   540
CGTAAACTGG ACAAACTTAC AGTTTTAAGA ATGGCTGTTC AACACTTGAG ATCTTTAAAA   600
GGCTTGACAA ATTCTTATGT GGGAAGTAAT TATAGACCAT CATTTCTTCA GGATAATGAG   660
CTCAGACATT TAATCCTTAA GACTGCAGAA GGCTTCTTAT TTGTGGTTGG ATGTGAAAGA   720
GGAAAAATTC TCTTCGTTTC TAAGTCAGTC TCCAAAATAC TTAATTATGA TCAGGCTAGT   780
TTGACTGGAC AAAGCTTATT TGACTTCTTA CATCCAAAAG ATGTTGCCAA AGTAAAGGAA   840
CAACTTTCTT CTTTTGATAT TTCACCAAGA GAAAAGCTAA TAGATGCCAA AACTGGTTTG   900
CAAGTTCACA GTAATCTCCA CGCTGGAAGG ACACGTGTGT ATTCTGGCTC AAGACGATCT   960
TTTTTCTGTC GGATAAAGAG TTGTAAAATC TCTGTCAAAG AAGAGCATGG ATGCTTACCC  1020
AACTCAAAGA AGAAAGAGCA CAGAAAATTC TATACTATCC ATTGCACTGG TTACTTGAGA  1080
AGCTGGCCTC CAAATATTGT TGGAATGGAA GAAGAAAGGA ACAGTAAGAA AGACAACAGT  1140
AATTTTACCT GCCTTGTGGC CATTGGAAGA TTACAGCCAT ATATTGTTCC ACAGAACAGT  1200
GGAGAGATTA ATGTGAAACC AACTGAATTT ATAACCCGGT TTGCAGTGAA TGGAAAATTT  1260
GTCTATGTAG ATCAAAGGGC AACAGCGATT TTAGGATATC TGCCTCAGGA ACTTTTGGGA  1320
ACTTCTTGTT ATGAATATTT TCATCAAGAT GACCACAATA ATTTGACTGA CAAGCACAAA  1380
GCAGTTCTAC AGAGTAAGGA GAAAATACTT ACAGATTCCT ACAAATTCAG AGCAAAAGAT  1440
GGCTCTTTTG TAACTTTAAA AAGCCAATGG TTTAGTTTCA CAAATCCTTG GACAAAAGAA  1500
CTGGAATATA TTGTATCTGT CAACACTTTA GTTTTGGGAC ATAGTGAGCC TGGAGAAGCA  1560
TCATTTTTAC CTTGTAGCTC TCAATCATCA GAAGAATCCT CTAGACAGTC CTGTATGAGT  1620
GTACCTGGAA TGTCTACTGG AACAGTACTT GGTGCTGGTA GTATTGGAAC AGATATTGCA  1680
AATGAAATTC TGGATTTACA GAGGTTACAG TCTTCTTCAT ACCTTGATGA TTCGAGTCCA  1740
ACAGGTTTAA TGAAAGATAC TCATACTGTA AACTGCAGGA GTATGTCAAA TAAGGAGTTG  1800
TTTCCACCAA GTCCTTCTGA AATGGGGGAG CTAGAGGCTA CCAGGCAAAA CCAGAGTACT  1860
GTTGCTGTCC ACAGCCATGA GCCACTCCTC AGTGATGGTG CACAGTTGGA TTTCGATGCC  1920
CTATGTGACA ATGATGACAC AGCCATGGCT GCATTTATGA ATTACTTAGA AGCAGAGGGG  1980
GGCCTGGGAG ACCCTGGGGA CTTCAGTGAC ATCCAGTGGA CCCTCTAGCC TTTGATTTTT  2040
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TAAAATATTT CTAACCAAGA ATACTACTTA CATATTGTTT TGGCTTTGTT TTATTTTTGA  2340
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AGCACAGAGC TGGGATATTT ATGCTCAGTT GAGCACTTTA AGATGAATTT TAAGTGAGAT  2640
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GCCGAGATCG CACCACTGCA CTCCAGTCTG GGCAACAGAG TGAGACTTCA TCTCAAAAAA  3120
AGTAAAAAAA AAGATTTAAT ATAATCACTG AAGATCTCTA TTATAGATAG ATTAGGTTTT  3180
TGACATTGGA AACATACTTA GGGATAGATT TGTCCTAAAG GAAAAAAGTA GGCCCGGGCA  3240
GATTAAATGT CTTGTGTAAA GTCACACATT AAATTCAGTC ACACATTAAA TTCATAGAGT  3300
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GCAATTACAG TTATTGCCTG TAACCAAAGG TAATAAAACA AAATGACAAG TACATGTTTA  3480
AAATTATGAG GCAATGAGAA ATAATTTAAA AACCAATTTT CTAGTTATAA TTTAAAATTT  3540
GGAGAGCATT TTTAACAGTA ATTAATCCAG AGGTGGCTCA AATTGAGTAT AAGAATTAAG  3600
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AATCCAGTTT CCTGTTCTAT ATGGTGCTAC ATCTTTCCAG AAAATTTCCC TCAGAGCCCC  3840
TCGCCAAAAC AAAGCATTAT TTTGACCCTG CATGCTATTT CTTTAGCTGT AGGTGATAGA  3900
TTAGAACTTC TGTCAGACAT GTTAATGACA AACATACCAA CAGACAATAA CCAAAGCAAA  3960
TGTTTCCTTC AAGTGTGAAA TGTGCAGGGG CTCGTGGGCA AGGATGTATT GGCACACTGT  4020
CCTCTTGAAC TGATAGTGTC CCAGCAATGT TGGAGGTTGG CACCATTCCT GGTCCGACAC  4080
TTGAGGACCT GAGAGACATC AGGTTTAGAA TGAGCCAAAG AAATCCTACA AGATGGGGAG  4140
AATTGGTGTG CAGCAGCCTA AGTGTTATAG TTAAGTCTAA AGAAGTATGA AAGATCCCCT  4200
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CATTGCAGGT TAGACTTGGC TTCCAAAGAG TCTGCCTAAG CCAGGGGTGG CAGGGTAGGC  4320
CATCATAGCT GGATGGCCTC AAAAGCAGAT GGGGGCAGAC TTGCCCTCGT GATGCCAGGA  4380
TTTGAGAGGC AGAGTTTCTA GAGGGAGACC AGTGCTGCCT CTCACAGTGG CAGTTTTTTC  4440
TCTTTGCAAG AGGAGGGGCT GTTCAATTCC ATAGACCAGT GGGCAGATAG CCAGTTGAAT  4500
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GTCCTGGACT CAAAATCTAA TCCATGCATT GTATGATACC GTAGCTCTCC TAAGGTTTGT  4620
GTTTCCTTCA AAATGTTTTA GTTTTCTTCA ACTAAATTTG ATTTTTGCTG TTAGAAGTGA  4680
CATATTTTTA TGGTATACAC TATGTTCCTT TTTTCTACTG CGAGTCAATT TTTTGAATTT  4740
TCGTGAGAAA GAATATATCT ACAAATTGCA CGAAAGTATC ATAAAAACAG TACTCTAGAG  4800
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CAGCGCTGTC CAATAGAAAT ATAATCTGAG CCACATGTAT AATTTTATTT TCTTCTAGCC  4860
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CAAAATATCA TTTGAACATG TAATTAATAT AAAATTATTA ATGTGATATT TTACATTCTT  4980
TTGGTAATAC TAGTCTTCAA AATCTGGTAT GTATCTTACA TTGATAGCAC ATCTCACTTT  5040
GTACTAGCCA CATTGCAAGT GCTCAGTAGC CACATGTGGC TAGTGGCTAC TGCACTGGAC  5100
AGCACAGTTC TAGGTTCCAC CCTAACACCC AAGTCCTGTG GATTAGAATC CCAGAATCAG  5160
AGCTGGAAGT AAACATAGAG ATCAAACCTC CTTTTAAAAA TGAGGACGCT GAGGCACAGA  5220
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CTCTACTGAA AATACAAAGC AAAATTAGCC AGGTGTGGTG GCGGGCGCCT GTGGTCCCAG  5520
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AATTTAACCT TTTGAAAATA ATAAACTTTA AAATATCAGA TGTGTTATTA CAGGATGATA  5880
CTTGGAATCA AGTGAAATGA GTTATATGGT CATCACTAAA TTTAGAAATC TATTGTGAAA  5940
CAAAGACAAA CAGGAAAGTA CAGAATAGAG ACTTTTAGTA AATAAATGGA ATTTAAAAGA  6000
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GATCTCCGTA AAATCTGGGG CACAGGTACA AGAAATAGCC AATATTTAGT TCCCAGACCA  6120
TGTTTAGTAG TGTCCAGTTT CAGATCATGC TGCCAAGAGG TATCTCCCCC TCAGGTGGGT  6180
CATCACTGAG CCCTGGAATT GGAGACTCAT ACTTGCCCAG CACAATGTTA CGGGCAGACA  6240
GGCCGACATC TATGATTAGC TAGAAGCCAT AAAGAAAAGC TGCTAAGTGG CCACTAGGTG  6300
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GCCTATGAGA GGCATTTATG ATTTTTGTGC CTACAATAAG TCAGCCTGTC TGGTGTGAGT  6420
TGTTTTATGA GAAATGCTTT CCAAGGGAGG TCTAGGAAGA TCCTGACACA TAAGAACTTT  6480
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CAGCACGGAA CATGCTTTCT GAACTCACTT GAGAGTGTAT GGTGTATGTC ACTTCTCATA  6600
TATTCTTGAG TTTAGATTTG TCTTTTATAC AATTTTTAGC TCTTTTCCAG TTCACTTGTG  6660
CTCGTCTGTA TATTGGTATT TTTAAATTTT TGTGGTAAAT AATGAAAAGA GTGAAATTAT  6720
ATTTTATAAT TACTCATTTG TAGTTTTTTT TTTTAATTTA ATAAACTTCC TCCAAAAAGT  6780
GCTCCCTTAA AA
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Seq ID NO: 166 Protein sequence:
Protein Accession #: AAG34652

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1           11          21          31          41          51
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MAAEEEAAAG GKVLREENQC IAPVVSSRVS PGTRPTAMGS FSSHMTEFPR KRKGSDSDPS    60
QVEDGEHQVK MKAFREAHSQ TEKRRRDKMN NLIEELSAMI PQCNPMARKL DKLTVLRMAV   120
QHLRSLKGLT NSYVGSNYRP SFLQDNELRH LILKTAEGFL FVVGCERGKI LFVSKSVSKI   180
LNYDQASLTG QSLFDFLHPK DVAKVKEQLS SFDISPREKL IDAKTGLQVH SNLHAGRTRV   240
YSGSRRSFFC RIKSCKISVK EEHGCLPNSK KKEHRKFYTI HCTGYLRSWP PNIVGMEEER   300
NSKKDNSNFT CLVAIGRLQP YIVPQNSGEI NVKPTEFITR FAVNGKFVYV DQRATAILGY   360
LPQELLGTSC YEYFHQDDHN NLTDKHKAVL QSKEKILTDS YKFRAKDGSF VTLKSQWFSF   420
TNPWTKELEY IVSVNTLVLG HSEPGEASFL PCSSQSSEES SRQSCMSVPG MSTGTVLGAG   480
SIGTDIANEI LDLQRLQSSS YLDDSSPTGL MKDTHTVNCR SMSNKELFPP SPSEMGELEA   540
TRQNQSTVAV HSHEPLLSDG AQLDFDALCD NDDTAMAAFM NYLEAEGGLG DPGDFSDIQW   600
TL
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Seq ID NO: 167 DNA sequence
Nucleic Acid Accession #: NM_014400
Coding sequence: 86-1126

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GATCTGGACT GCAGGCTGGC TGCTGCTGCT GCTGCTTCGC GGAGGAGCGC AGGCCCTGGA   180
GTGCTACAGC TGCGTGCAGA AAGCAGATGA CGGATGCTCC CCGAACAAGA TGAAGACAGT   240
GAAGTGCGCG CCGGGCGTGG ACGTCTGCAC CGAGGCCGTG GGGGCGGTGG AGACCATCCA   300
CGGACAATTC TCGCTGGCAG TGCSGGGTTG CGGTTCGGGA CTCCCCGGCA AGAATGACCG   360
CGGCCTGGAT CTTCACGGGC TTCTGGCGTT CATCCAGCTG CAGCAATGCG CTCAGGATCG   420
CTGCAACGCC AAGCTCAACC TCACCTCGCG GGCGCTCGAC CCGGCAGGTA ATGAGAGTGC   480
ATACCCGCCC AACGGCGTGG AGTGCTACAG CTGTGTGGGC CTGAGCCGGG AGGCGTGCCA   540
GGGTACATCG CCGCCGGTCG TGAGCTGCTA CAACGCCAGC GATCATGTCT ACAAGGGCTG   600
CTTCGACGGC AACGTCACCT TGACGGCAGC TAATGTGACT GTGTCCTTGC CTGTCCGGGG   660
CTGTGTCCAG GATGAATTCT GCACTCGGGA TGGAGTAACA GGCCCAGGGT TCACGCTCAG   720
TGGCTCCTGT TGCCAGGGGT CCCGCTGTAA CTCTGACCTC CGCAACAAGA CCTACTTCTC   780
CCCTCGAATC CCACCCCTTG TCCGGCTGCC CCCTCCAGAG CCCACGACTG TGGCCTCAAC   840
CACATCTGTC ACCACTTCTA CCTCGGCCCC AGTGAGACCC ACATCCACCA CCAAACCCAT   900
GCCAGCGCCA ACCAGTCAGA CTCCGAGACA GGGAGTAGAA CACGAGGCCT CCCGGGATGA   960
GGAGCCCAGG TTGACTGGAG GCGCCGCTGG CCACCAGGAC CGCAGCAATT CAGGGCAGTA  1020
TCCTGCAAAA GGGGGGCCCC AGCAGCCCCA TAATAAAGGC TGTGTGGCTC CCACAGCTGG  1080
ATTGGCAGCC CTTCTGTTGG CCGTGGCTGC TGGTGTCCTA CTGTGAGCTT CTCCACCTGG  1140
AAATTTCCCT CTCACCTACT TCTCTGGCCC TGGGTACCCC TCTTCTCATC ACTTCCTGTT  1200
CCCACCACTG GACTGGGCTG GCCCAGCCCC TGTTTTTCCA ACATTCCCCA GTATCCCCAG  1260
CTTCTGCTGC GCTGGTTTGC GGCTTTGGGA AATAAAATAC CGTTGTATAT ATTCTGGCAG  1320
GGGTGTTCTA GCTTTTTGAG GACAGCTCCT GTATCCTTCT CATCCTTGTC TCTCCGCTTG  1380
TCCTCTTGTG ATGTTAGGAC AGAGTGAGAG AAGTCAGCTG TCACGGGGAA GGTGAGAGAG  1440
AGGATGCTAA GCTTCCTACT CACTTTCTCC TAGCCAGCCT GGACTTTGGA GCGTGGGGTG  1500
GGTGGGACAA TGGCTCCCCA CTCTAAGCAC TGCCTCCCCT ACTCCCCGCA TCTTTGGGGA  1560
ATCGGTTCCC CATATGTCTT CCTTACTAGA CTGTGAGCTC CTCGAGGGCA GGGACCGTGC  1620
CTTATGTCTG TGTGTGATCA GTTTCTGGCA CATAAATGCC TCAATAAAGA TTTAATTACT  1680
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TTGTATAGTG AAAAAAAA

Seq ID NO: 168 Protein sequence:
Protein Accession #: NP_055215

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1           11          21          31          41          51
|           |           |           |           |           |
MDPARKAGAQ AMIWTAGWLL LLLLRGGAQA LECYSCVQKA DDGCSPNKMK TVKCAPGVDV    60
CTEAVGAVET IHGQFSLAVX GCGSGLPGKN DRGLDLHGLL AFIQLQQCAQ DRCNAKLNLT   120
SRALDPAGNE SAYPPNGVEC YSCVGLSREA CQGTSPPVVS CYNASDHVYK GCFDGNVTLT   180
AANVTVSLPV RGCVQDEFCT RDGVTGPGFT LSGSCCQGSR CNSDLRNKTY FSPRIPPLVR   240
LPPPEPTTVA STTSVTTSTS APVRPTSTTK PMPAPTSQTP RQGVEHEASR DEEPRLTGGA   300
AGHQDRSNSG QYPAKGGPQQ PHNKGCVAPT AGLAALLLAV AAGVLL
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Seq ID NO: 169 DNA sequence
Nucleic Acid Accession #: NM_006875
Coding sequence: 186-1190

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CACCAGTTTC TCTGCTTTCC ACCCTGGCGC CCCCCAGCCC TGGCTCCCCA GCTGCGCTGC   120
CCCGGGCGTC CACGCCCTGC GGGCTTAGCG GGTTCAGTGG GCTCAATCTG CGCAGCGCCA   180
CCTCCATGTT GACCAAGCCT CTACAGGGGC CTCCCGCGCC CCCCGGGACC CCCACGCCGC   240
CGCCAGGAGG CAAGGATCGG GAAGCGTTCG AGGCCGAGTA TCGACTCGGC CCCCTCCTGG   300
GTAAGGGGGG CTTTGGCACC GTCTTCGCAG GACACCGCCT CACAGATCGA CTCCAGGTGG   360
CCATCAAAGT GATTCCCCGG AATCGTGTGC TGGGCTGGTC CCCCTTGTCA GACTCAGTCA   420
CATGCCCACT CGAAGTCGCA CTGCTATGGA AAGTGGGTGC AGGTGGTGGG CACCCTGGCG   480
TGATCCGCCT GCTTGACTGG TTTGAGACAC AGGAAGGCTT CATGCTGGTC CTCGAGCGGC   540
CTTTGCCCGC CCAGGATCTC TTTGACTATA TCACAGAGAA GGGCCCACTG GGTGAAGGCC   600
CAAGCCGCTG CTTCTTTGGC CAAGTAGTGG CAGCCATCCA GCACTGCCAT TCCCGTGGAG   660
TTGTCCATCG TGACATCAAG GATGAGAACA TCCTGATAGA CCTACGCCGT GGCTGTGCCA   720
AACTCATTGA TTTTGGTTCT GGTGCCCTGC TTCATGATGA ACCCTACACT GACTTTGATG   780
GGACAAGGGT GTACAGCCCC CCAGAGTGGA TCTCTCGACA CCAGTACCAT GCACTCCCGG   840
CCACTGTCTG GTCACTGGGC ATCCTCCTCT ATGACATGGT GTGTGGGGAC ATTCCCTTTG   900
AGAGGGACCA GGAGATTCTG GAAGCTGAGC TCCACTTCCC AGCCCATGTC TCCCCAGACT   960
GCTGTGCCCT AATCCGCCGG TGCCTGGCCC CCAAACCTTC TTCCCGACCC TCACTGGAAG  1020
AGATCCTGCT GGACCCCTGG ATGCAAACAC CAGCCGAGGA TGTTACCCCT CAACCCCTCC  1080
AAAGGAGGCC CTGCCCCTTT GGCCTGGTCC TTGCTACCCT AAGCCTGGCC TGGCCTGGCC  1140
TGGCCCCCAA TGGTCAGAAG AGCCATCCCA TGGCCATGTC ACAGGGATAG ATGGACATTT  1200
GTTGACTTGG TTTTACAGGT CATTACCAGT CATTAAAGTC CAGTATTACT AAGGTAAGGG  1260
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CAAAGGAGCC TTCCTCCCAG AACCTGTGGT CCCTGATTTT GGAGGGGGAA CTTCTTGCTT  1380
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TCATATGCTT TTACTTGGGC AAGGGTGCTT TCCTTCCAAT ACCCCAGTAG CTTTTATTTT  1560
AGTAAAGGGA CCCTTTCCCC TAGCCTAGGG TCCCATATTG GGTCAAGCTG CTTACCTGCC  1620
TCAGCCCAGG ATTTTTTATT TTGGGGGAGG TAATGCCCTG TTGTTACCCC AAGGCTTCTT  1680
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CACCACCAGA CAATAGGATG GGATGGATGG TTTTTTGGGG GATGGGCTAG GGGAAATAAG  1860
GCTTGCTGTT TGTTTTCCTG GGGCGCTCCC TCCAATTTTG CAGATTTTTG CAACCTCCTC  1920
CTGAGCCGGG ATTGTCCAAT TACTAAAATG TAAATAATCA CGTATTGTGG GGAGGGGAGT  1980
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CCACTATTTA ATAAAAGTAA TAGAATCAGA AAAAAAAAAA AAAAAAAA
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Seq ID NO: 170 Protein sequence:
Protein Accession #: NP_006866

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1           11          21          31          41          51
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KVIPRNRVLG WSPLSDSVTC PLEVALLWKV GAGGGHPGVI RLLDWFETQE GFMLVLERPL   120
PAQDLFDYIT EKGPLGEGPS RCFFGQVVAA IQHCHSRGVV HRDIKDENIL IDLRRGCAKL   180
IDFGSGALLH DEPYTDFDGT RVYSPPEWIS RHQYHALPAT VWSLGILLYD MVCGDIPFER   240
DQEILEAELH FPAHVSPDCC ALIRRCLAPK PSSRPSLEEI LLDPWMQTPA EDVTPQPLQR   300
RPCPFGLVLA TLSLAWPGLA PNGQKSHPMA MSQG
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Seq ID NO: 171 DNA sequence
Nucleic Acid Accession #: NM_003646
Coding sequence: 89..2875

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GCCCTCCGCC GGCCGGGGCT AGGGCCGGAT GGAGCCGCGG GACGGTAGCC CCGAGGCCCG   120
GAGCAGCGAC TCCGAGTCGG CTTCCGCCTC GTCCAGCGGC TCCGAGCGCG ACGCCGGTCC   180
CGAGCCGGAC AAGGCGCCGC GGCGACTCAA CAAGCGGCGC TTCCCGGGGC TGCGGCTCTT   240
CGGGCACAGG AAAGCCATCA CCAAGTCGGG CCTCCAGCAC CTGGCCCCCC CTCCGCCCAC   300
CCCTGGGGCC CCGTGCAGCG AGTCAGAGCG GCAGATCCGG AGTACAGTGG ACTGGAGCGA   360
GTCAGCGACA TATGGGGAGC ACATCTGGTT CGAGACCAAC GTGTCCGGGG ACTTCTGCTA   420
CGTTGGGGAG CAGTACTGTG TAGCCAGGAT GCTGAAGTCA GTGTCTCGAA GAAAGTGCGC   480
AGCCTGCAAG ATTGTGGTGC ACACGCCCTG CATCGAGCAG CTGGAGAAGA TAAATTTCCG   540
CTGTAAGCCG TCCTTCCGTG AATCAGGCTC CAGGAATGTC CGCGAGCCAA CCTTTGTACG   600
GCACCACTGG GTACACAGAC GACGCCAGGA CGGCAAGTGT CGGCACTGTG GGAAGGGATT   660
CCAGCAGAAG TTCACCTTCC ACAGCAAGGA GATTGTGGCC ATCAGCTGCT CGTGGTGCAA   720
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GCAGGCATAC CACAGCAAGG TGTCCTGCTT CATGCTGCAG CAGATCGAGG AGCCGTGCTC   780
GCTGGGGGTC CACGCAGCCG TGGTCATCCC GCCCACCTGG ATCCTCCGCG CCCGGAGGCC   840
CCAGAATACT CTGAAAGCAA GCAAGAAGAA GAAGAGGGCA TCCTTCAAGA GGAAGTCCAG   900
CAAGAAAGGG CCTGAGGAGG GCCGCTGGAG ACCCTTCATC ATCAGGCCCA CCCCCTCCCC   960
GCTCATGAAG CCCCTGCTGG TGTTTGTGAA CCCCAAGAGT GGGGGCAACC AGGGTGCAAA  1020
GATCATCCAG TCTTTCCTCT GGTATCTCAA TCCCCGACAA GTCTTCGACC TGAGCCAGGG  1080
AGGGCCCAAG GAGGCGCTGG AGATGTACCG CAAAGTGCAC AACCTGCGGA TCCTGGCGTG  1140
CGGGGGCGAC GGCACGGTGG GCTGGATCCT CTCCACCCTG GACCAGCTAC GCCTGAAGCC  1200
GCCACCCCCT GTTGCCATCC TGCCCCTGGG TACTGGCAAC GACTTGGCCC GAACCCTCAA  1260
CTGGGGTGGG GGCTACACAG ATGAGCCTGT GTCCAAGATC CTCTCCCACG TGGAGGAGGG  1320
GAACGTGGTA CAGCTGGACC GCTGGGACCT CCACGCTGAG CCCAACCCCG AGGCAGGGCC  1380
TGAGGACCGA GATGAAGGCG CCACCGACCG GTTGCCCCTG GATGTCTTCA ACAACTACTT  1440
CAGCCTGGGC TTTGACGCCC ACGTCACCCT GGAGTTCCAC GAGTCTCGAG AGGCCAACCC  1500
AGAGAAATTC AACAGCCGCT TTCGGAATAA GATGTTCTAC GCCGGGACAG CTTTCTCTGA  1560
CTTCCTGATG GGCAGCTCCA AGGACCTGGC CAAGCACATC CGAGTGGTGT GTGATGGAAT  1620
GGACTTGACT CCCAAGATCC AGGACCTGAA ACCCCAGTGT GTTGTTTTCC TGAACATCCC  1680
CAGGTACTGT GCGGGCACCA TGCCCTGGGG CCACCCTGGG GAGCACCACG ACTTTGAGCC  1740
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GCTGCAGGTG GGCGGACACG GCGAGCGGCT GACGCAGTGT CGCGAGGTGG TGCTCACCAC  1860
ATCCAAGGCC ATCCCGGTGC AGGTGGATGG CGAGCCCTGC AAGCTTGCAG CCTCACGCAT  1920
CCGCATCGCC CTGCGCAACC AGGCCACCAT GGTGCAGAAG GCCAAGCGGC GGAGCGCCGC  1980
CCCCCTGCAC AGCGACCAGC AGCCGGTGCC AGAGCAGTTG CGCATCCAGG TGAGTCGCGT  2040
CAGCATGCAC GACTATGAGG CCCTGCACTA CGACAAGGAG CAGCTCAAGG AGGCCTCTGT  2100
GCCGCTGGGC ACTGTGGTGG TCCCAGGAGA CAGTGACCTA GAGCTCTGCC GTGCCCACAT  2160
TGAGAGACTC CAGCAGGAGC CCGATGGTGC TGGAGCCAAG TCCCCGACAT GCCAGAAACT  2220
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AGCCCAGGAG CACCTCAACT ATGTGACTGA GATCGCACAG GATGAGATTT ATATCCTGGA  2340
CCCTGAGCTG CTGGGGGCAT CGGCCCGGCC TGACCTCCCA ACCCCCACTT CCCCTCTCCC  2400
CACCTCACCC TGCTCACCCA CGCCCCGGTC ACTGCAAGGG GATGCTGCAC CCCCTCAAGG  2460
TGAAGAGCTG ATTGAGGCTG CCAAGAGGAA CGACTTCTGT AAGCTCCAGG AGCTGCACCG  2520
AGCTGGGGGC GACCTCATGC ACCGAGACGA GCAGAGTCGC ACGCTCCTGC ACCACGCAGT  2580
CAGCACTGGC AGCAAGGATG TGGTCCGCTA CCTGCTGGAC CACGCCCCCC CAGAGATCCT  2640
TGATGCGGTG GAGGAAAACG GGGAGACCTG TTTGCACCAA GCAGCGGCCC TGGGCCAGCG  2700
CACCATCTGC CACTACATCG TGGAGGCCGG GGCCTCGCTC ATGAAGACAG ACCAGCAGGG  2760
CGACACTCCC CGGCAGCGGG CTGAGAAGGC TCAGGACACC GAGCTGGCCG CCTACCTGGA  2820
GAACCGGCAG CACTACCAGA TGATCCAGCG GGAGGACCAG GAGACGGCTG TGTAGCGGGC  2880
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Seq ID NO: 172 Protein sequence:
Protein Accession #: NP_003637

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1           11          21          31          41          51
|           |           |           |           |           |
MEPRDGSPEA RSSDSESASA SSSGSERDAG PEPDKAPRRL NKRRFPGLRL FGHRKAITKS    60
GLQHLAPPPP TPGAPCSESE RQIRSTVDWS ESATYGEHIW FETNVSGDFC YVGEQYCVAR   120
MLKSVSRRKC AACKIVVHTP CIEQLEKINF RCKPSFRESG SRNVREPTFV RHHWVHRRRQ   180
DGKCRHCGKG FQQKFTFHSK EIVAISCSWC KQAYHSKVSC FMLQQIEEPC SLGVHAAVVI   240
PPTWILRARR PQNTLKASKK KKRASFKRKS SKKGPEEGRW RPFIIRPTPS PLMKPLLVFV   300
NPKSGGNQGA KIIQSFLWYL NPRQVFDLSQ GGPKEALEMY RKVHNLRILA CGGDGTVGWI   360
LSTLDQLRLK PPPPVAILPL GTGNDLARTL NWGGGYTDEP VSKILSHVEE GNVVQLDRWD   420
LHAEPNPEAG PEDRDEGATD RLPLDVFNNY FSLGFDAHVT LEFHESREAN PEKFNSRFRN   480
KMFYAGTAFS DFLMGSSKDL AKHIRVVCDG MDLTPKIQDL KPQCVVFLNI PRYCAGTMPW   540
GHPGEHHDFE PQRHDDGYLE VIGFTMTSLA ALQVGGHGER LTQCREVVLT TSKAIPVQVD   600
GEPCKLAASR IRIALRNQAT MVQKAKRRSA APLHSDQQPV PEQLRIQVSR VSMHDYEALH   660
YDKEQLKEAS VPLGTVVVPG DSDLELCRAH IERLQQEPDG AGAKSPTCQK LSPKWCFLDA   720
TTASRFYRID RAQEHLNYVT EIAQDEIYIL DPELLGASAR PDLPTPTSPL PTSPCSPTPR   780
SLQGDAAPPQ GEELIEAAKR NDFCKLQELH RAGGDLMHRD EQSRTLLHHA VSTGSKDVVR   840
YLLDHAPPEI LDAVEENGET CLHQAAALGQ RTICHYIVEA GASLMKTDQQ GDTPRQRAEK   900
AQDTELAAYL ENRQHYQMIQ REDQETAV
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Seq ID NO: 173 DNA sequence
Nucleic Acid Accession #: AF232772
Coding sequence: 1-1662

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GTGCTGGGTG GCATCCTGGC AGCCTATGTG ACGGGCTACC AGTTCATCCA CACGGAAAAG   120
CACTACCTGT CCTTCGGCCT GTACGGCGCC ATCCTGGGCC TGCACCTGCT CATTCAGAGC   180
CTTTTTGCCT TCCTGGAGCA CCGGCGCATG CGACGTGCCG GCCAGGCCCT GAAGCTGCCC   240
TCCCCGCGGC GGGGCTCGGT GGCACTGTGC ATTGCCGCAT ACCAGGAGGA CCCTGACTAC   300
TTGCGCAAGT GCCTGCGCTC GGCCCAGCGC ATCTCCTTCC CTGACCTCAA GGTGGTCATG   360
GTGGTGGATG GCAACCGCCA GGAGGACGCC TACATGCTGG ACATCTTCCA CGAGGTGCTG   420
GGCGGCACCG AGCAGGCCGG CTTCTTTGTG TGGCGCAGCA ACTTCCATGA GGCAGGCGAG   480
GGTGAGACGG AGGCCAGCCT GCAGGAGGGC ATGGACCGTG TGCGGGATGT GGTGCGGGCC   540
AGCACCTTCT CGTGCATCAT GCAGAAGTGG GGAGGCAAGC GCGAGGTCAT GTACACGGCC   600
TTCAAGGCCC TCGGCGATTC GGTGGACTAC ATCCAGGTGT GCGACTCTGA CACTGTGCTG   660
GATCCAGCCT GCACCATCGA GATGCTTCGA GTCCTGGAGG AGGATCCCCA AGTAGGGGGA   720
GTCGGGGGAG ATGTCCAGAT CCTCAACAAG TACGACTCAT GGATTTCCTT CCTGAGCAGC   780
GTGCGGTACT GGATGGCCTT CAACGTGGAG CGGGCCTGCC AGTCCTACTT TGGCTGTGTG   840
CAGTGTATTA GTGGGCCCTT GGGCATGTAC CGCAACAGCC TCCTCCAGCA GTTCCTGGAG   900
GACTGGTACC ATCAGAAGTT CCTAGGCAGC AAGTGCAGCT TCGGGGATGA CCGGCACCTC   960
ACCAACCGAG TCCTGAGCCT TGGCTACCGA ACTAAGTATA CCGCGCGCTC CAAGTGCCTC  1020
ACAGAGACCC CCACTAAGTA CCTCCGGTGG CTCAACCAGC AAACCCGCTG GAGCAAGTCT  1080
TACTTCCGGG AGTGGCTCTA CAACTCTCTG TGGTTCCATA AGCACCACCT CTGGATGACC  1140
TACGAGTCAG TGGTCACGGG TTTCTTCCCC TTCTTCCTCA TTGCCACGGT TATACAGCTT  1200
TTCTACCGGG GCCGCATCTG GAACATTCTC CTCTTCCTGC TGACGGTGCA GCTGGTGGGC  1260
ATTATCAAGG CCACCTACGC CTGCTTCCTT CGGGGCAATG CAGAGATGAT CTTCATGTCC  1320
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CTCTACTCCC TCCTCTATAT GTCCAGCCTT CTGCCGGCCA AGATCTTTGC CATTGCTACC  1380
ATCAACAAAT CTGGCTGGGG CACCTCTGGC CGAAAAACCA TTGTGGTGAA CTTCATTGGC  1440
CTCATTCCTG TGTCCATCTG GGTGGCAGTT CTCCTGGAGG GGCTGGCCTA CACAGCTTAT  1500
TGCCAGGACC TGTTCAGTGA GACAGAGCTA GCCTTCCTTG TCTCTGGGGC TATACTGTAT  1560
GGCTGCTACT GGGTGGCCCT CCTCATGCTA TATCTGGCCA TCATCGCCCG GCGATGTGGG  1620
AAGAAGCCGG AGCAGTACAG CTTGGCTTTT GCTGAGGTGT GACATGGCCC CCAAGCAGAG  1680
CGGGTAAAGT GCAATGGGTA AGGGAGGGAA GGGGAATGGA AGAGAAAAGA CAGGGTGGGA  1740
GGGAGGAGGG AGTGCTGTGT TTTAGTCTCT TAATGGTCCA AAGGACAAAT CTAAAATGCA  1800
AAGAACGGTG ATGTAGTATG GCCTGACAGC TCTGTTTAGA GGAGGCAACA CTGATCCCCC  1860
AGATGCAGGG CTGCAGGGGA TTCTGTGTTT TCAGACTGCC TGTCTGCTTG CATCTGCACA  1920
TAGGCAGTAG CCTCCTCCTG GGCTCCAGAG GGCACTCAGA AGTTGTGCTA AACCAAGTTA  1980
AGTCCCATTC AGTGGCAACT TGTGATAGGT ACCTGAGTGA CGGCAACCTG CGGAAGGAGG  2040
TTCTCCCAGC CCATCTGAAC ACAACCAGAG GTGGCAGGAG AATTTCTACT GAGCGAGGTG  2100
GGCCGGTTAG TGTATGTCAC CCCCACCCCA CCCATAAGTA GTCATCAATG CAATAAGATT  2160
GCGCGTGAGA TACAAGGCCC AGAAGCCTGA TCTTTGGGCA TCAGAAAACA GGGTCCAGGA  2220
ATGGTGCTTT ATGTGAGATA CCCCACTCCA CATCAACATT CCAGGGATGA GCCAAACCAG  2280
CAGGGAGTTA GCACTGAACT GCTTTTAAAA GTGCACATTA AAAAGGAAAG TTTGCCAGGA  2340
GGAACAAAGA GATTGTGGTG GTGCTAAAGG AGGCCATAAG CTACACAGAG GCCTTGGGTG  2400
TTCCACCTGG AAACTGCTCA GACGTCTAGA TGGGTTCTTA GCTTGTCTGT GATCTCTGCT  2460
GGGGAGATAA AAAGATTAAG CCCCAACATG TTCAGAAAAG AAGTGAAGTC TTGGGTATTT  2520
TAACCTGTAT ACTCTTGAAT TCCTCTCAAA TTCAGCTCTG ATCTGAGGCT AAGACACACT  2580
CCCCACTTCA CTTTCTTCAA AGCCACATTT TTTGAGGTAT CACTGCAGTC ACCTCTTCTA  2640
CCCTCATCAT CATAGGTAAG GTTTTCAAGG TGGCAATTGG GGCGGAGCCC CGGCTTCTTA  2700
TAGAAGCTTC AGCAGGAGGC AAGCGTGTTC TCAGCACATA TGGGAACTAT GAGGAGCCTC  2760
TGATCAAATT GGCTACAATC TTGGAGCTGC TTGGACGGAT TCCTTGGCAG CCGGGTTAGC  2820
ATGTGTGACT TTCAGGCTAC TGTTCTTGAC AATCATCTCC AATGGAAAGC TTTTCAGTGT  2880
TCCCAAAGTG AACTCTCAAA TCCAAAATGG TTATCTTTGA GACCATCCAT TCTCCTCAGT  2940
GGCTTCTCCA GGGAATTCTT ACAGCCAAGT TGTGACAGTC ACTGCATTTG CCTGCTTCTT  3000
TCCAGAAACC AAACTAGGAG ATGAAACTGG TTCCTACATC CTAAGGTTCT TGCTTTCTCT  3060
CTCATGCCTC CTGAGGCTGT TTTTGGCTGT TTTCCCTCTG CTGCTTTTGG GGAATGAGGG  3120
GAAGCCATTT TCCAAGTGAC TTGCAATCCA GGCTGTTCTC AGCGTTTTGA GTTTAAAACC  3180
TGGGATCCTG ACTAAGCCTT TGACTTAAGG GTTGCTTGCT TGCCCTCCAA ATGTCCTTTC  3240
TCAAAGGGGC CAACTAACCC GTGCAGAACC AGCACTAAGG TGGACAGCAG ACAAGAGGGC  3300
AAGCCTCTAA TGTACCAAGT GCTTCCTACA AAGACGCAAG GTGTGCTCCG AACCACAGAT  3360
GGGCAAACCC TGGTGCTTTC CTTCATCTCC CACGAACTCA AGGGTTTTCC AAGTGTAGCT  3420
AACAGTTGCC ACATCACACA GACCTCCAGT TTCTGGTAAG ACTGCTGGTT GACATCAGAC  3480
CCAACCCATT GAAGGCTGGA AGGCAGCAGG CATTTGCTAA GGCAGCTGAT CCAGGCAATC  3540
GTTCTGCTGG CCAAGAAGTT AAACTATTTT GAGCATTAGA ATGGAGGAAA TCCGGTCAGC  3600
CAAGTGCAGA GTTCAGACTT CGCTAAGGGC TTGTTTTTCT TCAGCATTTA CTTGAAGATT  3660
AATGTAGGAT GACAGGCTCT CCTGGCTGTC CTACCATCAG CTCTGCCTTG CACTGTGGTC  3720
GTCAACTTTC CTCAAATCAA AAACAGGCAG GTACAGGTAG TGGGCTCACA ACGTTTGACC  3780
TCGACTGGTT TTTCTAAGTT ATTTTGTACA TTTTTCAGCA GCAAAACCAA ACTGGGTCTT  3840
CAGCTTTATC CCCGTTTCTT GCAAGGGAAG AGCCTTTATA CAATTGGACG CATTTTGGTT  3900
TTTCCTCATT GAGAATTCAA ATCCTCTTTT GTATTGTTTC TACAATAATT TGTAAACATA  3960
TTTATTTTTA CCTGCTTTTT TTTTTTTTTT TAATTTTCAG GTCAAGTTTT TTATACTGCA  4020
CTTATTTGTC AAAATAAAGA TTCTCACAT
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Seq ID NO: 174 Protein sequence:
Protein Accession #: AAF36984

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1          11         21         31         41         51
|          |          |          |          |          |
MPVQLTTALR VVGTSLFALA VLGGILAAYV TGYQFIHTEK HYLSFGLYGA ILGLHLLIQS    60
LFAFLEHRRM RRAGQALKLP SPRRGSVALC IAAYQEDPDY LRKCLRSAQR ISFPDLKVVM   120
VVDGNRQEDA YMLDIFHEVL GGTEQAGFFV WRSNFHEAGE GETEASLQEG MDRVRDVVRA   180
STFSCIMQKW GGKREVMYTA FKALGDSVDY IQVCDSDTVL DPACTIEMLR VLEEDPQVGG   240
VGGDVQILNK YDSWISFLSS VRYWMAFNVE RACQSYFGCV QCISGPLGMY RNSLLQQFLE   300
DWYHQKFLGS KCSFGDDRHL TNRVLSLGYR TKYTARSKCL TETPTKYLRW LNQQTRWSKS   360
YFREWLYNSL WFHKHHLWMT YESVVTGFFP FFLIATVIQL FYRGRIWNIL LFLLTVQLVG   420
IIKATYACFL RGNAEMIFMS LYSLLYMSSL LPAKIFAIAT INKSGWGTSG RKTIVVNFIG   480
LIPVSIWVAV LLEGLAYTAY CQDLFSETEL AFLVSGAILY GCYWVALLML YLAIIARRCG   540
KKPEQYSLAF AEV
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Seq ID NO: 175 DNA sequence
Nucleic Acid Accession #: NM_000691
Coding sequence: 43..1404

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GCCGTGAAGC GCGCCCGCGC CGCCTTCAGC TCGGGCAGGA CCCGTCCGCT GCAGTTCCGA   120
TTCCAGCAGC TGGAGGCGCT GCAGCGCCTG ATCCAGGAGC AGGAGCAGGA GCTGGTGGGC   180
GCGCTGGCCG CAGACCTGCA CAAGAATGAA TGGAACGCCT ACTATGAGGA GGTGGTGTAC   240
GTCCTAGAGG AGATCGAGTA CATGATCCAG AAGCTCCCTG AGTGGGCCGC GGATGAGCCC   300
GTGGAGAAGA CGCCCCAGAC TCAGCAGGAC GAGCTCTACA TCCACTCGGA GCCACTGGGC   360
GTGGTCCTCG TCATTGGCAC CTGGAACTAC CCCTTCAACC TCACCATCCA GCCCATGGTG   420
GGCGCCATCG CTGCAGGGAA CGCAGTGGTC CTCAAGCCCT CGGAGCTGAG TGAGAACATG   480
GCGAGCCTGC TGGCTACCAT CATCCCCCAG TACCTGGACA AGGATCTGTA CCCAGTAATC   540
AATGGGGGTG TCCCTGAGAC CACGGAGCTG CTCAAGGAGA GGTTCGACCA TATCCTGTAC   600
ACGGGCAGCA CGGGGGTGGG GAAGATCATC ATGACGGCTG CTGCCAAGCA CCTGACCCCT   660
GTCACGCTGG AGCTGGGAGG GAAGAGTCCC TGCTACGTGG ACAAGAACTG TGACCTGGAC   720
GTGGCCTGCC GACGCATCGC CTGGGGGAAA TTCATGAACA GTGGCCAGAC CTGCGTGGCC   780
CCAGACTACA TCCTCTGTGA CCCCTCGATC CAGAACCAAA TTGTGGAGAA GCTCAAGAAG   840
TCACTGAAAG AGTTCTACGG GGAAGATGCT AAGAAATCCC GGGACTATGG AAGAATCATT   900
AGTGCCCGGC ACTTCCAGAG GGTGATGGGC CTGATTGAGG GCCAGAAGGT GGCTTATGGG   960
GGCACCGGGG ATGCCGCCAC TCGCTACATA GCCCCCACCA TCCTCACGGA CGTGGACCCC  1020
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CAGTCCCCGG TGATGCAAGA GGAGATCTTC GGGCCTGTGC TGCCCATCGT GTGCGTGCGC  1080
AGCCTGGAGG AGGCCATCCA GTTCATCAAC CAGCGTGAGA AGCCCCTGGC CCTCTACATG  1140
TTCTCCAGCA ACGACAAGGT GATTAAGAAG ATGATTGCAG AGACATCCAG TGGTGGGGTG  1200
GCGGCCAACG ATGTCATCGT CCACATCACC TTGCACTCTC TGCCCTTCGG GGGCGTGGGG  1260
AACAGCGGCA TGGGATCCTA CCATGGCAAG AAGAGCTTCG AGACTTTCTC TCACCGCCGC  1320
TCTTGCCTGG TGAGGCCTCT GATGAATGAT GAAGGCCTGA AGGTCAGATA CCCCCCGAGC  1380
CCGGCCAAGA TGACCCAGCA CTGAGGAGGG GTTGCTCCGC CTGGCCTGGC CATACTGTGT  1440
CCCATCGGAG TGCGGACCAC CCTCACTGGC TCTCCTGGCC CTGGAGAATC GCTCCTGCAG  1500
CCCCAGCCCA GCCCCACTCC TCTGCTGACC TGCTGACCTG TGCACACCCC ACTCCCACAT  1560
GGGCCCAGGC CTCACCATTC CAAGTCTCCA CCCCTTTCTA GACCAATAAA GAGACAAATA  1620
CAATTTTCTA ACTCGG
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Seq ID NO: 176 Protein sequence:
Protein Accession #: NP_000682

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1          11         21         31         41         51
|          |          |          |          |          |
MSKISEAVKR ARAAFSSGRT RPLQFRFQQL EALQRLIQEQ EQELVGALAA DLHKNEWNAY    60
YEEVVYVLEE IEYMIQKLPE WAADEPVEKT PQTQQDELYI HSEPLGVVLV IGTWNYPFNL   120
TIQPMVGAIA AGNAVVLKPS ELSENMASLL ATIIPQYLDK DLYPVINGGV PETTELLKER   180
FDHILYTGST GVGKIIMTAA AKHLTPVTLE LGGKSPCYVD KNCDLDVACR RIAWGKFMNS   240
GQTCVAPDYI LCDPSIQNQI VEKLKKSLKE FYGEDAKKSR DYGRIISARH FQRVMGLIEG   300
QKVAYGGTGD AATRYIAPTI LTDVDPQSPV MQEEIFGPVL PIVCVRSLEE AIQFINQREK   360
PLALYMFSSN DKVIKKMIAE TSSGGVAAND VIVHITLHSL PFGGVGNSGM GSYHGKKSFE   420
TFSHRRSCLV RPLMNDEGLK VRYPPSPAKM TQH
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Seq ID NO: 177 DNA sequence
Nucleic Acid Accession #: NM_001067.1
Coding sequence: 108-4703

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|          |          |          |          |          |
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CTGTTTAGTC GCTTTCAGGG TTCTTGAGCC CCTTCACGAC CGTCACCATG GAAGTGTCAC   120
CATTGCAGCC TGTAAATGAA AATATGCAAG TCAACAAAAT AAAGAAAAAT GAAGATGCTA   180
AGAAAAGACT GTCTGTTGAA AGAATCTATC AAAAGAAAAC ACAATTGGAA CATATTTTGC   240
TCCGCCCAGA CACCTACATT GGTTCTGTGG AATTAGTGAC CCAGCAAATG TGGGTTTACG   300
ATGAAGATGT TGGCATTAAC TATAGGGAAG TCACTTTTGT TCCTGGTTTG TACAAAATCT   360
TTGATGAGAT TCTAGTTAAT GCTGCGGACA ACAAACAAAG GGACCCAAAA ATGTCTTGTA   420
TTAGAGTCAC AATTGATCCG GAAAACAATT TAATTAGTAT ATGGAATAAT GGAAAAGGTA   480
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TCCTAACTTC TAGTAACTAT GATGATGATG AAAAGAAAGT GACAGGTGGT CGAAATGGCT   600
ATGGAGCCAA ATTGTGTAAC ATATTCAGTA CCAAATTTAC TGTGGAAACA GCCAGTAGAG   660
AATACAAGAA AATGTTCAAA CAGACATGGA TGGATAATAT GGGAAGAGCT GGTGAGATGG   720
AACTCAAGCC CTTCAATGGA GAAGATTATA CATGTATCAC CTTTCAGCCT GATTTGTCTA   780
AGTTTAAAAT GCAAAGCCTG GACAAAGATA TTGTTGCACT AATGGTCAGA AGAGCATATG   840
ATATTGCTGG ATCCACCAAA GATGTCAAAG TCTTTCTTAA TGGAAATAAA CTGCCAGTAA   900
AAGGATTTCG TAGTTATGTG GACATGTATT TGAAGGACAA GTTGGATGAA ACTGGTAACT   960
CCTTGAAAGT AATACATGAA CAAGTAAACC ACAGGTGGGA AGTGTGTTTA ACTATGAGTG  1020
AAAAAGGCTT TCAGCAAATT AGCTTTGTCA ACAGCATTGC TACATCCAAG GGTGGCAGAC  1080
ATGTTGATTA TGTAGCTGAT CAGATTGTGA CTAAACTTGT TGATGTTGTG AAGAAGAAGA  1140
ACAAGGGTGG TGTTGCAGTA AAAGCACATC AGGTGAAAAA TCACATGTGG ATTTTTGTAA  1200
ATGCCTTAAT TGAAAACCCA ACCTTTGACT CTCAGACAAA AGAAAACATG ACTTTACAAC  1260
CCAAGAGCTT TGGATCAACA TGCCAATTGA GTGAAAAATT TATCAAAGCT GCCATTGGCT  1320
GTGGTATTGT AGAAAGCATA CTAAACTGGG TGAAGTTTAA GGCCCAAGTC CAGTTAAACA  1380
AGAAGTGTTC AGCTGTAAAA CATAATAGAA TCAAGGGAAT TCCCAAACTC GATGATGCCA  1440
ATGATGCAGG GGGCCGAAAC TCCACTGAGT GTACGCTTAT CCTGACTGAG GGAGATTCAG  1500
CCAAAACTTT GGCTGTTTCA GGCCTTGGTG TGGTTGGGAG AGACAAATAT GGGGTTTTCC  1560
CTCTTAGAGG AAAAATACTC AATGTTCGAG AAGCTTCTCA TAAGCAGATC ATGGAAAATG  1620
CTGAGATTAA CAATATCATC AAGATTGTGG GTCTTCAGTA CAAGAAAAAC TATGAAGATG  1680
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ATGGTTCCCA CATCAAAGGC TTGCTGATTA ATTTTATCCA TCACAACTGG CCCTCTCTTC  1800
TGCGACATCG TTTTCTGGAG GAATTTATCA CTCCCATTGT AAAGGTATCT AAAAACAAGC  1860
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CGTTGAAGTT TTTATATGAT GACAACCAGC GTGTTGAGCC TGAATGGTAC ATTCCTATTA  2640
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TCAGACTTAA ATATTATGGA TTAAGAAAAG AATGGCTCCT AGGAATGCTT GGTGCTGAAT  3240
CTGCTAAACT GAATAATCAG GCTCGCTTTA TCTTAGAGAA AATAGATGGC AAAATAATCA  3300
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TCAACTATCT TCTTGATATG CCCCTTTGGT ATTTAACCAA GGAAAAGAAA GATGAACTCT  3540
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TCAAAAAAGG AAAGAAGAGA AATCCCTGGC CTGATTCAGA ATCAGATAGG AGCAGTGACG  4020
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GTAACAAAGA ACTGAAACCA CAGAAAAGTG TCGTGTCAGA CCTTGAAGCT GATGATGTTA  4260
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CAGCTTTGAA TTCTGGTGTC TCTCAAAAGC CTGATCCTGC CAAAACCAAG AATCGCCGCA  4500
AAAGGAAGCC ATCCACTTCT GATGATTCTG ACTCTAATTT TGAGAAAATT GTTTCGAAAG  4560
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CAGATGAAGA TGATCTGTTT TAAAATGTGA GGCGATTATT TTAAGTAATT ATCTTACCAA  4740
GCCCAAGACT GGTTTTAAAG TTACCTGAAG CTCTTAACTT CCTCCCCTCT GAATTTAGTT  4800
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AGCTAAAACT AGAGCAGTTT GATTTAAAAG TGTCACTCTT CCTCCTTTTC TACTTTCAGT  5100
AGATATGAGA TAGAGCATAA TTATCTGTTT TATCTTAGTT TTATACATAA TTTACCATCA  5160
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Seq ID NO: 178 Protein sequence:
Protein Accession #: NP_001058.1

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Seq ID NO: 179 DNA sequence
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Seq ID NO: 180 Protein sequence:
Protein Accession #: Eos sequence

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Seq ID NO: 181 DNA sequence
Nucleic Acid Accession #: Eos sequence

Coding sequence: 148-4518

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Seq ID NO: 182 Protein sequence:
Protein Accession #: Eos sequence

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Seq ID NO: 183 DNA sequence
Nucleic Acid Accession #: EOS sequence
Coding sequence: 148-4494

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Seq ID NO: 186 Protein sequence:
Protein Accession #: EOS sequence

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Seq ID NO: 187 DNA sequence
Nucleic Acid Accession #: EOS sequence
Coding sequence: 148-4632

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Protein Accession #: EOS sequence

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GACCACCTGT CTGACACCTC CACAACGTCG CTGGAGCTCG ATTCACGGTA ACAGGCTTCT   840
CTGGCCCGTA GCCTCAGCGG GGTGCTCTCA GCTGGGTTTT GGAGCCTCCC TTCTGCCTTG   900
GCTTGGACAA ACCTAGAATT TTCTCCCTTT ATGTATCTCT ATCGATTGTG TAGCAATTGA   960
CAGAGAATAA CTCAGAATAT TGTCTGCCTT AAAGCAGTAC CCCCCTACCA CACACACCCC  1020
TGTCCTCCAG CACCATAGAG AGGCGCTAGA GCCCATTCCT CTTTCTCCAC CGTCACCCAA  1080
CATCAATCCT TTACCACTCT ACCAAATAAT TTCATATTCA AGCTTCAGAA GCTAGTGACC  1140
ATCTTCATAA TTTGCTGGAG AAGTGTATTT CTTCCCCTTA CTCTCACACC TGGGCAAACT  1200
TTCTTCAGTG TTTTTCATTT CTTACGTTCT TTCACTTCAA GGGAGAATAT AGAAGCATTT  1260
GATATTATCT ACAAACACTG CAGAACAGCA TCATGTCATA AACGATTCTG AGCCATTCAC  1320
ACTTTTTATT TAATTAAATG TATTTAATTA AATCTCAAAT TTATTTTAAT GTAAAGAACT  1380
TAAATTATGT TTTAAACACA TGCCTTAAAT TTGTTTAATT AAATTTAACT CTGGTTTCTA  1440
CCAGCTCATA CAAAATAAAT GGTTTCTGAA AATGTTTAAG TATTAACTTA CAAGGATATA  1500
GGTTTTTCTC ATGTATCTTT TTGTTCATTG GCAAGATGAA ATAATTTTTC TAGGGTAATG  1560
CCGTAGGAAA AATAAAACTT CACATTTAAA AAAAA
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Seq ID NO: 190 Protein sequence:
Protein Accession #: NP_002811

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1          11         21         31         41         51
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HHLIAEIHTA EIRATSEVSP NSKPSPNTKN HPVRFGSDDE GRYLTQETNK VETYKEQPLK   120
TPGKKKKGKP GKRKEQEKKK RRTRSAWLDS GVTGSGLEGD HLSDTSTTSL ELDSR
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Seq ID NO: 191 DNA sequence
Nucleic Acid Accession #: XM_059328
Coding sequence: 52..1023

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GGTATCGTGG AGGCCTTTCT GGCCGGGGCT GTGACCAGCG TGTCCCTGCT GGTCAACGGT   180
GCGGCCACGG AGAGCGCGGC GGAGCTGGCC CGCAGGCACA GCATCCCCAC GGGCCTCCAC   240
GCCAACCTGT CCGAGGGCCG CCCCGTGGGT CCGGCCCGCC GTGGCGCCTC ATCGCTGCTC   300
GGCCCGGAAG GCTTCTTCCT TGGCAAGATG GGATTCCGGG AGGCGGTGGC GGCCGGAGAC   360
GTGGATTTGC CTCAGGTGCG GGAGGAGCTC GAGGCCCAAC TAAGCTGCTT CCGGGAGCTG   420
CTGGGCAGGG CCCCCACGCA CGCGGACGGG CACCAGCACG TGCACGTGCT CCCAGGCGTG   480
TGCCAGGTGT TCGCCGAGGC GCTGCAGGCC TATGGGGTGC GCTTTACGCG ACTGCCGCTG   540
GAGCGCGGTG TGGGTGGCTG CACTTGGCTG GAGGCCCCCG CGCGTGCCTT CGCCTGCGCC   600
GTGGAGCGCG ACGCCCGGGC CGCCGTGGGC CCCTTCTCCC GCCACGGCCT GCGGTGGACA   660
GACGCCTTCG TGGGCCTGAG CACTTGCGGC CGGCACATGT CCGCTCACCG CGTGTCCGGG   720
GCCCTGGCGC GGGTCCTGGA AGGTACCCTA GCGGGCCACA CCCTGACAGC CGAGCTGATG   780
GCGCACCCCG GCTACCCCAG TGTGCCTCCC ACCGGCGGCT GCGGTGAAGG CCCCGACGCT   840
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GCCCAGCTTG CCCAGGATGG CGTGCAGCTT TGCGCCCTCG ACGACCTGGA CTCCAAGAGG   960
CCAGGGGAGG AGGTCCCCTG TGAGCCCACT CTGGAACCCT TCCTGGAACC CTCCCTACTC  1020
TGACCCCCTA CAGACAACCA AGCACTAATC CCCTTAGTAC CAAGAAAGGG GAGCCAGGAT  1080
TTAGTCCTGG CCCAGCCCAG AGCTGGGACC TGGAGCACGA TCTGTTGACT TCCCTGGGTA  1140
GGACACTGCC ACCTCTGGGC TCAGGTCCTC ATGCCTCCAA ATGGCATCTA GAGTTTGAGC  1200
AGCCTTCTTG GCTGCAGGCA GGCCTAGCCT GTGGCAGCGG GCTAGGGCCC GCAGAGCATT  1260
TGGTGCCCCT CCATGTTGCA ATGCAAACAC CTTCACCACT GGGGCAGTGG GGAGAGATGG  1320
CTATATTAAT AAAATAACGT GTGTCTTTC
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Seq ID NO: 192 Protein sequence:
Protein Accession #: XP_059328

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GLHANLSEGR PVGPARRGAS SLLGPEGFFL GKMGFREAVA AGDVDLPQVR EELEAQLSCF   120
RELLGRAPTH ADGHQHVHVL PGVCQVFAEA LQAYGVRFTR LPLERGVGGC TWLEAPARAF   180
ACAVERDARA AVGPFSRHGL RWTDAFVGLS TCGRHMSAHR VSGALARVLE GTLAGHTLTA   240
ELMAHPGYPS VPPTGGCGEG PDAFSCSWER LHELRVLTAP TLRAQLAQDG VQLCALDDLD   300
SKRPGEEVPC EPTLEPFLEP SLL
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Seq ID NO: 193 DNA sequence
Nucleic Acid Accession #: NM_005688.1
Coding sequence: 126..4439

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AGGGGCGCAG GAATTCTGAT GTGAAACTAA CAGTCTGTGA GCCCTGGAAC CTCCGCTCAG   120
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AGAAGATGAA GGATATCGAC ATAGGAAAAG AGTATATCAT CCCCAGTCCT GGGTATAGAA   180
GTGTGAGGGA GAGAACCAGC ACTTCTGGGA CGCACAGAGA CCGTGAAGAT TCCAAGTTCA   240
GGAGAACTCG ACCGTTGGAA TGCCAAGATG CCTTGGAAAC AGCAGCCCGA GCCGAGGGCC   300
TCTCTCTTGA TGCCTCCATG CATTCTCAGC TCAGAATCCT GGATGAGGAG CATCCCAAGG   360
GAAAGTACCA TCATGGCTTG AGTGCTCTGA AGCCCATCCG GACTACTTCC AAACACCAGC   420
ACCCAGTGGA CAATGCTGGG CTTTTTTCCT GTATGACTTT TTCGTGGCTT TCTTCTCTGG   480
CCCGTGTGGC CCACAAGAAG GGGGAGCTCT CAATGGAAGA CGTGTGGTCT CTGTCCAAGC   540
ACGAGTCTTC TGACGTGAAC TGCAGAAGAC TAGAGAGACT GTGGCAAGAA GAGCTGAATG   600
AAGTTGGGCC AGACGCTGCT TCCCTGCGAA GGGTTGTGTG GATCTTCTGC CGCACCAGGC   660
TCATCCTGTC CATCGTGTGC CTGATGATCA CGCAGCTGGC TGGCTTCAGT GGACCAGCCT   720
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TGTTGTTAGT GCTGGGCCTC CTCCTGACGG AAATCGTGCG GTCTTGGTCG CTTGCACTGA   840
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GCTTCCTGGG ATCAGCTGTT TTTATCCTCT TTTACCCAGC AATGATGTTT GCATCACGGC  1140
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ACAGCATCGA TCTGGAGATC CAAGAGGGTA AACTGGTTGG AATCTGCGGC AGTGTGGGAA  1920
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TTGCAATCAG TGGAACCTTC GCTTATGTGG CCCAGCAGGC CTGGATCCTC AATGCTACTC  2040
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GCACGCTGCG AGCTTCCTCC CGGCTGCATG ACGAGCTTTT CCGAAGGATC CTTCGAAGCC  3000
CTATGAAGTT TTTTGACACG ACCCCCACAG GGAGGATTCT CAACAGGTTT TCCAAAGACA  3060
TGGATGAAGT TGACGTGCGG CTGCCGTTCC AGGCCGAGAT GTTCATCCAG AACGTTATCC  3120
TGGTGTTCTT CTGTGTGGGA ATGATCGCAG GAGTCTTCCC GTGGTTCCTT GTGGCAGTGG  3180
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TGAAGCGTCT GGACAATATC ACGCAGTCAC CTTTCCTCTC CCACATCACG TCCAGCATAC  3300
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TTTCACTCCC TCCATCAAGA ATGGGGATCA CAGAGACATT CCTCCGAGCC GGGGAGTTTC  5220
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TCCCACTGCC TCAGGTTCCT ATGGCTGGCC ACTGCACAGA GCTCTCCAGC TCCAAGACCT  5340
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GTTGGTTCCA AGCCCTGGAG CCAACTGCTG CTTTTTGAGG TGGCACTTTT TCATTTGCCT  5400
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ACCTCAGGTT GCTGGTTGCT GTGTGGTTTG GTGTGTTCCC GCAAACCCCC TTTGTGCTGT  5640
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AAAAAAAAAA AAAAAAAA
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Seq ID NO: 194 Protein sequence:
Protein Accession #: NP_005679.1

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VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI   180
LSIVCLMITQ LAGFSGPAFM VKHLLEYTQA TESNLQYSLL LVLGLLLTEI VRSWSLALTW   240
ALNYRTGVRL RGAILTMAFK KILKLKNIKE KSLGELINIC SNDGQRMFEA AAVGSLLAGG   300
PVVAILGMIY NVIILGPTGF LGSAVFILFY PAMMFASRLT AYFRRKCVAA TDERVQKMNE   360
VLTYIKFIKM YAWVKAFSQS VQKIREEERR ILEKAGYFQG ITVGVAPIVV VIASVVTFSV   420
HMTLGFDLTA AQAFTVVTVF NSMTFALKVT PFSVKSLSEA SVAVDRFKSL FLMEEVHMIK   480
NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTPKMKKDK RASRGKKEKV RQLQRTEHQA   540
VLAEQKGHLL LDSDERPSPE EEEGKHIHLG HLRLQRTLHS IDLEIQEGKL VGICGSVGSG   600
KTSLISAILG QMTLLEGSIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS   660
CCLRPDLAIL PSSDLTEIGE RGANLSGGQR QRISLARALY SDRSIYILDD PLSALDAHVG   720
NHIFNSAIRK HLKSKTVLFV THQLQYLVDC DEVIFMKEGC ITERGTHEEL MNLNGDYATI   780
FNNLLLGETP PVEINSKKET SGSQKKSQDK GPKTGSVKKE KAVKPEEGQL VQLEEKGQGS   840
VPWSVYGVYI QAAGGPLAFL VIMALFMLNV GSTAFSTWWL SYWIKQGSGN TTVTRGNETS   900
VSDSMKDNPH MQYYASIYAL SMAVMLILKA IRGVVFVKGT LRASSRLHDE LFRRILRSPM   960
KFFDTTPTGR ILNRFSKDMD EVDVRLPFQA EMFIQNVILV FFCVGMIAGV FPWFLVAVGP  1020
LVILFSVLHI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL  1080
LDDNQAPFFL FTCAMRWLAV RLDLISIALI TTTGLMIVLM HGQIPPAYAG LAISYAVQLT  1140
GLFQFTVRLA SETEARFTSV ERINHYIKTL SLEAPARIKN KAPSPDWPQE GEVTFENAEM  1200
RYRENLPLVL KKVSFTIKPK EKIGIVGRTG SGKSSLGMAL FRLVELSGGC IKIDGVRISD  1260
IGLADLRSKL SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE  1320
SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLLIQE TIREAFADCT  1380
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Seq ID NO: 195 DNA sequence
Nucleic Acid Accession #: NM_006470
Coding sequence: 228..1922

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TGGGCCAAGG GACAGAAGAA AGACAGCCTA GGAGCAGAGC CTCCCAGATG GCTGAGTTGG   240
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ACCACAACTG GCGATACTGC CCTGCCCACC ACAGCCCACT GTCTGCTTTC TGCTGCCCTG   660
ATCAGCAGTG CATCTGCCAG GACTGTTGCC AGGAGCACAG TGGCCACACC ATAGTCTCCC   720
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Seq ID NO: 196 Protein sequence:
Protein Accession #: NP_006461

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EPVKDHNWRY CPAHHSPLSA FCCPDQQCIC QDCCQEHSGH TIVSLDAARR DKEAELQCTQ   180
LDLERKLKLN ENAISRLQAN QKSVLVSVSE VKAVAEMQFG ELLAAVRKAQ ANVMLFLEEK   240
EQAALSQANG IKAHLEYRSA EMEKSKQELE RMAAISNTVQ FLEEYCKFKN TEDITFPSVY   300
VGLKDKLSGI RKVITESTVH LIQLLENYKK KLQEFSKEEE YDIRTQVSAV VQRKYWTSKP   360
EPSTREQFLQ YAYDITFDPD TAHKYLRLQE ENRKVTNTTP WEHPYPDLPS RFLHWRQVLS   420
QQSLYLHRYY FEVEIFGAGT YVGLTCKGID RKGEERNSCI SGNNFSWSLQ WNGKEFTAWY   480
SDMETPLKAG PFRRLGVYID FPGGILSFYG VEYDTMTLVH KFACKFSEPV YAAFWLSKKE   540
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Seq ID NO: 197 DNA sequence
Nucleic Acid Accession #: NM_004316
Coding sequence: 433-1149

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1           11          21          31          41          51
|           |           |           |           |           |
CCCGAGACCC GGCGCAAGAG AGCGCAGCCT TAGTAGGAGA GGAACGCGAG ACGCGGCAGA    60
GCGCGTTCAG CACTGACTTT TGCTGCTGCT TCTGCTTTTT TTTTTCTTAG AAACAAGAAG   120
GCGCCAGCGG CAGCCTCACA CGCGAGCGCC ACGCGAGGCT CCCGAAGCCA ACCCGCGAAG   180
GGAGGAGGGG AGGGAGGAGG AGGCGGCGTG CAGGGAGGAG AAAAAGCATT TTCACCTTTT   240
TTGCTCCCAC TCTAAGAAGT CTCCCGGGGA TTTTGTATAT ATTTTTTAAC TTCCGTCAGG   300
GCTCCCGCTT CATATTTCCT TTTCTTTCCC TCTCTGTTCC TGCACCCAAG TTCTCTCTGT   360
GTCCCCCTCG CGGGCCCCGC ACCTCGCGTC CCGGATCGCT CTGATTCCGC GACTCCTTGG   420
CCGCCGCTGC GCATGGAAAG CTCTGCCAAG ATGGAGAGCG GCGGCGCCGG CCAGCAGCCC   480
CAGCCGCAGC CCCAGCAGCC CTTCCTGCCG CCCGCAGCCT GTTTCTTTGC CACGGCGCCA   540
GCCGCGGCGG CCGCAGCCGC CGCAGCGGCA GCGCAGAGCG CGCAGCAGCA GCAGCAGCAG   600
CAGCAGCAGC AGCAGCAGCA GCAGGCGCCG CAGCTGAGAC CGGCGGCCGA CGGCCAGCCC   660
TCAGGGGGCG GTCACAAGTC AGCGCCCAAG CAAGTCAAGC GACAGCGCTC GTCTTCGCCC   720
GAACTGATGC GCTGCAAACG CCGGCTCAAC TTCAGCGGCT TTGGCTACAG CCTGCCGCAG   780
CAGCAGCCGG CCGCCGTGGC GCGCCGCAAC GAGCGCGAGC GCAACCGCGT CAAGTTGGTC   840
AACCTGGGCT TTGCCACCCT TCGGGAGCAC GTCCCCAACG GCGCGGCCAA CAAGAAGATG   900
AGTAAGGTGG AGACACTGCG CTCGGCGGTC GAGTACATCC GCGCGCTGCA GCAGCTGCTG   960
GACGAGCATG ACGCGGTGAG CGCCGCCTTC CAGGCAGGCG TCCTGTCGCC CACCATCTCC  1020
CCCAACTACT CCAACGACTT GAACTCCATG GCCGGCTCGC CGGTCTCATC CTACTCGTCG  1080
GACGAGGGCT CTTACGACCC GCTCAGCCCC GAGGAGCAGG AGCTTCTCGA CTTCACCAAC  1140
TGGTTCTGAG GGGCTCGGCC TGGTCAGGCC CTGGTGCGAA TGGACTTTGG AAGCAGGGTG  1200
ATCGCACAAC CTGCATCTTT AGTGCTTTCT TGTCAGTGGC GTTGGGAGGG GGAGAAAAGG  1260
AAAAGAAAAA AAAAGAAGAA GAAGAAGAAA AGAGAAGAAG AAAAAAACGA AAACAGTCAA  1320
CCAACCCCAT CGCCAACTAA GCGAGGCATG CCTGAGAGAC ATGGCTTTCA GAAAACGGGA  1380
AGCGCTCAGA ACAGTATCTT TGCACTCCAA TCATTCACGG AGATATGAAG AGCAACTGGG  1440
ACCTGAGTCA ATGCGCAAAA TGCAGCTTGT GTGCAAAAGC AGTGGGCTCC TGGCAGAAGG  1500
GAGCAGCACA CGCGTTATAG TAACTCCCAT CACCTCTAAC ACGCACAGCT GAAAGTTCTT  1560
GCTCGGGTCC CTTCACCTCC CCGCCCTTTC TTAGAGTGCA GTTCTTAGCC CTCTAGAAAC  1620
GAGTTGGTGT CTTTC
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Seq ID NO: 198 Protein sequence:
Protein Accession #: NP_004307

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1           11          21          31          41          51
|           |           |           |           |           |
MESSAKMESG GAGQQPQPQP QQPFLPPAAC FFATAAAAAA AAAAAAAQSA QQQQQQQQQQ    60
QQQQAPQLRP AADGQPSGGG HKSAPKQVKR QRSSSPELMR CKRRLNFSGF GYSLPQQQPA   120
AVARRNERER NRVKLVNLGF ATLREHVPNG AANKKMSKVE TLRSAVEYIR ALQQLLDEHD   180
AVSAAFQAGV LSPTISPNYS NDLNSMAGSP VSSYSSDEGS YDPLSPEEQE LLDFTNWF
```

Seq ID NO: 199 DNA sequence
Nucleic Acid Accession #: NM_007015
Coding sequence: 1-1005

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGACAGAGA ACTCCGACAA AGTTCCCATT GCCCTGGTGG GACCTGATGA CGTGGAATTC    60
TGCAGCCCCC CGGCGTACGC TACGCTGACG GTGAAGCCCT CCAGCCCCGC GCGGCTGCTC   120
AAGGTGGGAG CCGTGGTCCT CATTTCGGGA GCTGTGCTGC TGCTCTTTGG GGCCATCGGG   180
GCCTTCTACT TCTGGAAGGG GAGCGACAGT CACATTTACA ATGTCCATTA CACCATGAGT   240
ATCAATGGGA AACTACAAGA TGGGTCAATG GAAATAGACG CTGGGAACAA CTTGGAGACC   300
TTTAAAATGG GAAGTGGAGC TGAAGAAGCA ATTGCAGTTA ATGATTTCCA GAATGGCATC   360
ACAGGAATTC GTTTTGCTGG AGGAGAGAAG TGCTACATTA AAGCGCAAGT GAAGGCTCGT   420
ATTCCTGAGG TGGGCGCCGT GACCAAACAG AGCATCTCCT CCAAACTGGA AGGCAAGATC   480
ATGCCAGTCA AATATGAAGA AAATTCTCTT ATCTGGGTGG CTGTAGATCA GCCTGTGAAG   540
GACAACAGCT TCTTGAGTTC TAAGGTGTTA GAACTCTGCG GTGACCTTCC TATTTTCTGG   600
CTTAAACCAA CCTATCCAAA AGAAATCCAG AGGGAAAGAA GAGAAGTGGT AAGAAAAATT   660
GTTCCAACTA CCACAAAAAG ACCACACAGT GGACCACGGA GCAACCCAGG CGCTGGAAGA   720
CTGAATAATG AAACCAGACC CAGTGTTCAA GAGGACTCAC AAGCCTTCAA TCCTGATAAT   780
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CCTTATCATC AGCAGGAAGG GGAAAGCATG ACATTCGACC CTAGACTGGA TCACGAAGGA   840
ATCTGTTGTA TAGAATGTAG GCGGAGCTAC ACCCACTGCC AGAAGATCTG TGAACCCCTG   900
GGGGGCTATT ACCCATGGCC TTATAATTAT CAAGGCTGCC GTTCGGCCTG CAGAGTCATC   960
ATGCCATGTA GCTGGTGGGT GGCCCGTATC TTGGGCATGG TGTGAAATCA CTTCATATAT  1020
CACGTGCTGT AAAATAAGAA CTAGCTGAAG AGACAACCAA AGAAGCATTA AGGCAGGTTG  1080
ATGCTGATGG GACCATAAAA TATTTTTACA CGCAGCCTGA GCGGTTATTC TTGACACTCT  1140
TAACAGAATT TTTTTAATCG TTTTCCAGAA CTTTAGTATA TGCAAATGCA CTGAAAGGGT  1200
AGTTCAAGTC TAAAATGCCA TAACCCCGTT ATTTGTTATT TTTTATTTGC ATTGATTTGC  1260
CATAAGTCTT CCCTTGCTTG CATCTTCCAA AGCTATTTCG AAATAAACAC GAAAATTTAC  1320
AGTTTGCC
```

Seq ID NO: 200 Protein sequence:
Protein Accession #: NP_008946

```
1          11         21         31         41         51
|          |          |          |          |          |
MTENSDKVPI ALVGPDDVEF CSPPAYATLT VKPSSPARLL KVGAVVLISG AVLLLFGAIG    60
AFYFWKGSDS HIYNVHYTMS INGKLQDGSM EIDAGNNLET FKMGSGAEEA IAVNDFQNGI   120
TGIRFAGGEK CYIKAQVKAR IPEVGAVTKQ SISSKLEGKI MPVKYEENSL IWVAVDQPVK   180
DNSFLSSKVL ELCGDLPIFW LKPTYPKEIQ RERREVVRKI VPTTTKRPHS GPRSNPGAGR   240
LNNETRPSVQ EDSQAFNPDN PYHQQEGESM TFDPRLDHEG ICCIECRRSY THCQKICEPL   300
GGYYPWPYNY QGCRSACRVI MPCSWWVARI LGMV
```

Seq ID NO: 201 DNA sequence
Nucleic Acid Accession #: NM_000728.2
Coding sequence: 112..495

```
1          11         21         31         41         51
|          |          |          |          |          |
GTAATAAGAG CGGGGTCTCC GCGGGGAAGG CGCCCACAGC AGGTGTGGTG TTCATCCCGG    60
GTCGACCGGC CGCTCGCGCT GCCCTGAAAC TCTAGTCGCC AGAGAGGCGG CATGGGTTTC   120
CGGAAGTTCT CCCCCTTCCT GGCTCTCAGT ATCTTGGTCC TGTACCAGGC GGGCAGCCTC   180
CAGGCGGCGC CATTCAGGTC TGCCCTGGAG AGCAGCCCAG ACCCGGCCAC ACTCAGTAAA   240
GAGGACGCGC GCCTCCTGCT GGCTGCACTG GTGCAGGACT ATGTGCAGAT GAAGGCCAGT   300
GAGCTGAAGC AGGAGCAGGA GACACAGGGC TCCAGCTCCG CTGCCCAGAA GAGAGCCTGC   360
AACACTGCCA CCTGTGTGAC TCATCGGCTG GCAGGCTTGC TGAGCAGATC AGGGGGCATG   420
GTGAAGAGCA ACTTCGTGCC CACCAATGTG GGTTCCAAAG CCTTTGGCAG GCGCCGCAGG   480
GACCTTCAAG CCTGAGCAGA TGAATGACTC CAGGAAGAAG GTGTGTCCTA AATCCAATGA   540
CATATCCTTA TAAGAGATTC ACTCAGAAGA CACATGTGGA GAAGGTGACA TGACAGAGGC   600
AAGGAGGCAC AAGCCAAGGA AGTCTGTGTC TACCAGAAGC CAGAATCACA GAACAGTCTC   660
TGGAAGAAGA GCAGCCCTGC TGACACCTAG AGTTTGGACT TCCAGCTTCC AGAACTGTGA   720
GAGAATAATT TCTGTTGTTT TAAGCCACAA AGTTTGTGGT AATTTGTTAT GACAGCCCTA   780
GGAAACTAAT ACAATACATT TTCATTTATT TTGGGTAAAT GCCTTGGAGT GGGATTGCTG   840
GGTTATTTGG AAAGTGTGTA TTTAACTCTG TAAGAAACTG CCAAACTATT TTCTGAAGTG   900
ACTGTACCAC TTCGCCTTCT TGCCAGCCAC ATATGAGAGC TCTAGTATTT CCACAAATAG   960
GTATGTAGCA GTATCTCATT GCTGTTTTAA TTTGTATTTC CCCAATGACT AATGACGTTG  1020
AGCATCTATT TTACCATATG TTTATCACCT TTATTGAAGG GTCTGTTTAA ATCTTCTGCT  1080
AAATTTTTGT TGGCTTGCTT GCTTTATTAG TGTTGAGTTT TTAGAGCTCT TTATATGTTG  1140
TGGATGCAAG ATTGTTTTCA GATATATAGT TTGGAAACTT CCTTCCCCTG AATCTGCGGA  1200
TTGCTTTTTC ATTTTCTTAG CAGTGTCTCT CACAGAGAAA AAGTTGTAAT TTGAATAAGA  1260
TCCAATTCAT CTTTTTTTTT CTTTTATGTA TTGTGCTTTT AGTTCATGTC TAAGAACTCT  1320
TTGCCTAACT AAGGTCCCAA GGTCACAATA ACCTTATTCT ATACTTTCTT GTAAAAGTTT  1380
TATAGTTTTA TATTTTATAT GTAGATTAGT GATCTATTTT GAGTTAATTT TTGTATAAGG  1440
TGAGAGGTGT AGGTTGAAAT TCATACCTGT GAATATAGAT ACCCAATTGT TTCAGTGCCA  1500
TTTGTTAAAA AGACTGTTAT TTCACCATTT AATTGCCCCT GCACCTTTGT CAAAAAGCAA  1560
CTGATCATAT TTGTGTGGGT ATATTTCTGG GTTCTCAATT CTGTCTCATT GATTGATTTG  1620
ACCATTCTTT TGCCAATGTC ATACTGCCTT GATTAGTGTA GTGTTAAAGT GAATCTCAAA  1680
ACCAGATAAT GTGGGTCTAC CAACATTGTT CATTCTTGTT CAAAAAGATT TTAGCTACAT  1740
CTAAAATATT TTCTACATCT TTTATACATT TTAGAATCAG TGTGTTACTA TCTACAAAAT  1800
TTCTGATGAG ATTTTTAATG GGATTGTGTT AAATCAGTGG GTTAATTTTG GGAGAATTAG  1860
CATATTAATA ATATTAAGTC GTTCAATTCA TGAACACAAT ACATGTTTTC ACTTATTTAG  1920
GTTTTCTCTG TTTTTTTTTT TTTAACAGTG TTCTCAGTTT TCAACAGAAA TATTCTACAC  1980
ATATCTTGTT AGATTTTTAA CTATTTTATT TTTTGGTGCT AATGTAAATG GTACTTAAAC  2040
ATTTTTGTTT TTAATTGTTC ATTGCTAGTA GATAGAAATA CAATATTTAA AATATTAGGA  2100
AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA
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Seq ID NO: 202 Protein sequence:
Protein Accession #: NP_000719.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MGFRKFSPFL ALSILVLYQA GSLQAAPFRS ALESSPDPAT LSKEDARLLL AALVQDYVQM    60
KASELKQEQE TQGSSSAAQK RACNTATCVT HRLAGLLSRS GGMVKSNFVP TNVGSKAFGR   120
RRRDLQA
```

Seq ID NO: 203 DNA sequence
Nucleic Acid Accession #: NM_001741
Coding sequence: 71..496

```
1          11         21         31         41         51
|          |          |          |          |          |
CTCTGGCTGG ACGCCGCCGC CGCCGCTGCC ACCGCCTCTG ATCCAAGCCA CCTCCCGCCA    60
GAGAGGTGTC ATGGGCTTCC AAAAGTTCTC CCCCTTCCTG GCTCTCAGCA TCTTGGTCCT   120
GTTGCAGGCA GGCAGCCTCC ATGCAGCACC ATTCAGGTCT GCCCTGGAGA GCAGCCCAGC   180
AGACCCGGCC ACGCTCAGTG AGGACGAAGC GCGCCTCCTG CTGGCTGCAC TGGTGCAGGA   240
CTATGTGCAG ATGAAGGCCA GTGAGCTGGA GCAGGAGCAA GAGAGAGAGG GCTCCAGCCT   300
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GGACAGCCCC AGATCTAAGC GGTGCGGTAA TCTGAGTACT TGCATGCTGG GCACATACAC   360
GCAGGACTTC AACAAGTTTC ACACGTTCCC CCAAACTGCA ATTGGGGTTG GAGCACCTGG   420
AAAGAAAAGG GATATGTCCA GCGACTTGGA GAGAGACCAT CGCCCTCATG TTAGCATGCC   480
CCAGAATGCC AACTAAACTC CTCCCTTTCC TTCCTAATTT CCCTTCTTGC ATCCTTCCTA   540
TAACTTGATG CATGTGGTTT GGTTCCTCTC TGGTGGCTCT TTGGGCTGGT ATTGGTGGCT   600
TTCCTTGTGG CAGAGGATGT CTCAAACTTC AGATGGGAGG AAAGAGAGCA GGACTCACAG   660
GTTGGAAGAG AATCACCTGG GAAAATACCA GAAAATGAGG GCCGCTTTGA GTCCCCCAGA   720
GATGTCATCA GAGCTCCTCT GTCCTGCTTC TGAATGTGCT GATCATTTGA GGAATAAAAT   780
TATTTTCCCC C
```

Seq ID NO: 204 Protein sequence:
Protein Accession #: NP_001732

```
1           11          21          31          41          51
|           |           |           |           |           |
MGFQKFSPFL ALSILVLLQA GSLHAAPFRS ALESSPADPA TLSEDEARLL LAALVQDYVQ    60
MKASELEQEQ EREGSSLDSP RSKRCGNLST CMLGTYTQDF NKFHTFPQTA IGVGAPGKKR   120
DMSSDLERDH RPHVSMPQNA N
```

Seq ID NO: 205 DNA sequence
Nucleic Acid Accession #: NM_005361
Coding sequence: 1-945

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGCCTCTTG AGCAGAGGAG TCAGCACTGC AAGCCTGAAG AAGGCCTTGA GGCCCGAGGA    60
GAGGCCCTGG GCCTGGTGGG TGCGCAGGCT CCTGCTACTG AGGAGCAGCA GACCGCTTCT   120
TCCTCTTCTA CTCTAGTGGA AGTTACCCTG GGGGAGGTGC CTGCTGCCGA CTCACCGAGT   180
CCTCCCCACA GTCCTCAGGG AGCCTCCAGC TTCTCGACTA CCATCAACTA CACTCTTTGG   240
AGACAATCCG ATGAGGGCTC CAGCAACCAA GAAGAGGAGG GGCCAAGAAT GTTTCCCGAC   300
CTGGAGTCCG AGTTCCAAGC AGCAATCAGT AGGAAGATGG TTGAGTTGGT TCATTTTCTG   360
CTCCTCAAGT ATCGAGCCAG GGAGCCGGTC ACAAAGGCAG AAATGCTGGA GAGTGTCCTC   420
AGAAATTGCC AGGACTTCTT TCCCGTGATC TTCAGCAAAG CCTCCGAGTA CTTGCAGCTG   480
GTCTTTGGCA TCGAGGTGGT GGAAGTGGTC CCCATCAGCC ACTTGTACAT CCTTGTCACC   540
TGCCTGGGCC TCTCCTACGA TGGCCTGCTG GGCGACAATC AGGTCATGCC CAAGACAGGC   600
CTCCTGATAA TCGTCCTGGC CATAATCGCA ATAGAGGGCG ACTGTGCCCC TGAGGAGAAA   660
ATCTGGGAGG AGCTGAGTAT GTTGGAGGTG TTTGAGGGGA GGGAGGACAG TGTCTTCGCA   720
CATCCCAGGA AGCTGCTCAT GCAAGATCTG GTGCAGGAAA ACTACCTGGA GTACCGGCAG   780
GTGCCCGGCA GTGATCCTGC ATGCTACGAG TTCCTGTGGG GTCCAAGGGC CCTCATTGAA   840
ACCAGCTATG TGAAAGTCCT GCACCATACA CTAAAGATCG GTGGAGAACC TCACATTTCC   900
TACCCACCCC TGCATGAACG GGCTTTGAGA GAGGGAGAAG AGTGA
```

Seq ID NO: 206 Protein sequence:
Protein Accession #: NP_005352

```
1           11          21          31          41          51
|           |           |           |           |           |
MPLEQRSQHC KPEEGLEARG EALGLVGAQA PATEEQQTAS SSSTLVEVTL GEVPAADSPS    60
PPHSPQGASS FSTTINYTLW RQSDEGSSNQ EEEGPRMFPD LESEFQAAIS RKMVELVHFL   120
LLKYRAREPV TKAEMLESVL RNCQDFFPVI FSKASEYLQL VFGIEVVEVV PISHLYILVT   180
CLGLSYDGLL GDNQVMPKTG LLIIVLAIIA IEGDCAPEEK IWEELSMLEV FEGREDSVFA   240
HPRKLLMQDL VQENYLEYRQ VPGSDPACYE FLWGPRALIE TSYVKVLHHT LKIGGEPHIS   300
YPPLHERALR EGEE
```

Seq ID NO: 207 DNA sequence
Nucleic Acid Accession #: NM_021115
Coding sequence: 743-2893

```
1           11          21          31          41          51
|           |           |           |           |           |
AAAGGAAGGG AGGGAGGGAG AAAGGAGAAG TTGGTTTAGA GGCCAGCCGG ACGAGCTTTG    60
GGCACCGCCC TTAGGAGGGC CACCCTCAGA GTCTGACAGC AGGTGAAGGT CCTAAATCTC   120
CCCAAACTAA CTGGTGTCTT TTCTCCTCTT CCAAGATGCT CTTCCCGAGG GAGATGCTAG   180
CCCTTTGGGT CCTTACCTCC TGCCCTCAGG AGCCCCGGAG AGAGGCAGTC CTGGCAAAGA   240
GCACCCTGAA GAGAGAGTGG TAACAGCGCC CCCCAGTTCC TCACAGTCGG CGGAAGTGCT   300
GGGCGAGCTG GTGCTGGATG GGACCGCACC CTCTGCACAT CACGACATCC CAGCCCTGTC   360
ACCGCTGCTT CCAGAGGAGG CCCGCCCCAA GCACGCCTTG CCCCCCAAGA AGAAACTGCC   420
TTCGCTCAAG CAGGTGAACT CTGCCAGGAA GCAGCTGAGG CCCAAGGCCA CCTCCGCAGC   480
CACTGTCCAA AGGGCAGGGT CCCAGCCAGC GTCCCAGGGC CTAGATCTCC TCTCCTCCTC   540
CACGGAGAAG CCTGGCCCAC CGGGGGACCC GGACCCCATC GTGGCCTCCG AGGAGGCATC   600
AGAAGTGCCC CTTTGGCTGG ACCGAAAGGA GAGTGCGGTC CCTACAACAC CCGCACCCCT   660
GCAAATCTCC CCCTTCACTT CGCAGCCCTA TGTGGCCCAC ACACTCCCCC AGAGGCCAGA   720
ACCCGGGGAG CCTGGGCCTG ACATGGCCCA GGAGGCCCCC CAGGAGGACA CCAGCCCCAT   780
GGCCCTGATG GACAAAGGTG AGAATGAGCT GACTGGGTCA GCCTCAGAGG AGAGCCAGGA   840
GACCACTACC TCCACCATTA TCACCACCAC GGTCATCACC ACCGAGCAGG CACCAGCTCT   900
CTGCAGTGTG AGCTTCTCCA ATCCTGAGGG GTACATTGAC TCCAGCGACT ACCCACTGCT   960
GCCCCTCAAC AACTTTCTGG AGTGCACATA CAACGTGACA GTCTACACTG GCTATGGGGT  1020
GGAGCTCCAG GTGAAGAGTG TGAACCTGTC CGATGGGGAA CTGCTCTCCA TCCGCGGGGT  1080
GGACGGCCCT ACCCTGACCG TCCTGGCCAA CCAGACACTC CTGGTGGAGG GGCAGGTAAT  1140
CCGAAGCCCC ACCAACACCA TCTCCGTCTA CTTCCGGACC TTCCAGGACG ACGGCCTTGG  1200
GACCTTCCAG CTTCACTACC AGGCCTTCAT GCTGAGCTGC AACTTTCCCC GCCGGCCTGA  1260
CTCTGGGGAT GTCACGGTGA TGGACCTGCA CTCAGGTGGG GTGGCCCACT TTCACTGCCA  1320
CCTGGGCTAT GAGCTCCAGG GCGCTAAGAT GCTGACATGC ATCAATGCCT CCAAGCCGCA  1380
CTGGAGCAGC CAGGAGCCCA TCTGCTCAGC TCCTTGTGGA GGGGCAGTGC ACAATGCCAC  1440
CATCGGCCGC GTCCTCTCCC CAAGTTACCC TGAAAACACA AATGGGAGCC AATTCTGCAT  1500
CTGGACGATT GAAGCTCCAG AGGGCCAGAA GCTGCACCTG CACTTTGAGA GGCTGTTGCT  1560
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GCATGACAAG GACAGGATGA CGGTTCACAG CGGGCAGACC AACAAGTCAG CTCTTCTCTA  1620
CGACTCCCTT CAAACCGAGA GTGTCCCTTT TGAGGGCCTG CTGAGCGAAG GCAACACCAT  1680
CCGCATCGAG TTCACGTCCG ACCAGGCCCG GGCGGCCTCC ACCTTCAACA TCCGATTTGA  1740
AGCGTTTGAG AAAGGCCACT GCTATGAGCC CTACATCCAG AATGGGAACT TCACTACATC  1800
CGACCCGACC TATAACATTG GGACTATAGT GGAGTTCACC TGCGACCCCG GCCACTCCCT  1860
GGAGCAGGGC CCGGCCATCA TCGAATGCAT CAATGTGCGG GACCCATACT GGAATGACAC  1920
AGAGCCCCTG TGCAGAGCCA TGTGTGGTGG GGAGCTCTCT GCTGTGGCTG GGGTGGTATT  1980
GTCCCCAAAC TGGCCCGAGC CCTACGTGGA AGGTGAAGAT TGTATCTGGA AGATCCACGT  2040
GGGAGAAGAG AAACGGATCT TCTTAGATAT CCAGTTCCTG AATCTGAGCA ACAGTGACAT  2100
CTTGACCATC TACGATGGCG ACGAGGTCAT GCCCCACATC TTGGGGCAGT ACCTTGGGAA  2160
CAGTGGCCCC CAGAAACTGT ACTCCTCCAC GCCAGACTTA ACCATCCAGT TCCATTCGGA  2220
CCCTGCTGGC CTCATCTTTG GAAAGGGCCA GGGATTTATC ATGAACTACA TAGAGGTATC  2280
AAGGAATGAC TCCTGCTCGG ATTTACCCGA GATCCAGAAT GGCTGGAAAA CCACTTCTCA  2340
CACGGAGTTG GTGCGGGGAG CCAGAATCAC CTACCAGTGT GACCCCGGCT ATGACATCGT  2400
GGGGAGTGAC ACCCTCACCT GCCAGTGGGA CCTCAGCTGG AGCAGCGACC CCCCATTTTG  2460
TGAGAAAATT ATGTACTGCA CCGACCCCGG AGAGGTGGAT CACTCGACCC GCTTAATTTC  2520
GGATCCTGTG CTGCTGGTGG GGACCACCAT CCAATACACC TGCAACCCCG GTTTTGTGCT  2580
TGAAGGGAGT TCTCTTCTGA CCTGCTACAG CCGTGAAACA GGGACTCCCA TCTGGACGTC  2640
TCGCCTGCCC CACTGCGTTT CAGAAGCGGC AGCAGAGACG TCGCTGGAAG GGGGGAACAT  2700
GGCCCTGGCT ATCTTCATCC CGGTCCTCAT CATCTCCTTA CTGCTGGGAG GAGCCTACAT  2760
TTACATCACA AGATGTCGCT ACTATTCCAA CCTCCGCCTG CCTCTGATGT ACTCCCACCC  2820
CTACAGCCAG ATCACCGTGG AAACCGAGTT TGACAACCCC ATTTACGAGA CAGGGGGAAC  2880
CCAAAAGGTT TAGGGTTTCA TTTAAAAAGA GGTACCCTTT AAAAAGGGGC TTGTGAACTC  2940
AACCCCAATT TCCCCGAGAC ATTTATCCAA AGGCCCTGGG GGCCTTGATT TAAACCCCCA  3000
AAAGGCGGCT GTTTTTTGGT TAAACTTTTT AACAAAGGGT TACGGGTTTT TTCCCCGGAT  3060
TTTATAAATT TTAAAAGTG
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Seq ID NO: 208 Protein sequence:
Protein Accession #: NP_066938

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1           11          21          31          41          51
|           |           |           |           |           |
MAQEAPQEDT SPMALMDKGE NELTGSASEE SQETTTSTII TTTVITTEQA PALCSVSFSN    60
PEGYIDSSDY PLLPLNNFLE CTYNVTVYTG YGVELQVKSV NLSDGELLSI RGVDGPTLTV   120
LANQTLLVEG QVIRSPTNTI SVYFRTFQDD GLGTFQLHYQ AFMLSCNFPR RPDSGDVTVM   180
DLHSGGVAHF HCHLGYELQG AKMLTCINAS KPHWSSQEPI CSAPCGGAVH NATIGRVLSP   240
SYPENTNGSQ FCIWTIEAPE GQKLHLHFER LLLHDKDRMT VHSGQTNKSA LLYDSLQTES   300
VPFEGLLSEG NTIRIEFTSD QARAASTFNI RFEAFEKGHC YEPYIQNGNF TTSDPTYNIG   360
TIVEFTCDPG HSLEQGPAII ECINVRDPYW NDTEPLCRAM CGGELSAVAG VVLSPNWPEP   420
YVEGEDCIWK IHVGEEKRIF LDIQFLNLSN SDILTIYDGD EVMPHILGQY LGNSGPQKLY   480
SSTPDLTIQF HSDPAGLIFG KGQGFIMNYI EVSRNDSCSD LPEIQNGWKT TSHTELVRGA   540
RITYQCDPGY DIVGSDTLTC QWDLSWSSDP PFCEKIMYCT DPGEVDHSTR LISDPVLLVG   600
TTIQYTCNPG FVLEGSSLLT CYSRETGTPI WTSRLPHCVS EAAAETSLEG GNMALAIFIP   660
VLIISLLLGG AYIYIITRCRY YSNLRLPLMY SHPYSQITVE TEFDNPIYET GGTQKV
```

Seq ID NO: 209 DNA sequence
Nucleic Acid Accession #: NM_001327.1
Coding sequence: 89-631

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1           11          21          31          41          51
|           |           |           |           |           |
AGCAGGGGGC GCTGTGTGTA CCGAGAATAC GAGAATACCT CGTGGGCCCT GACCTTCTCT    60
CTGAGAGCCG GGCAGAGGCT CCGGAGCCAT GCAGGCCGAA GGCCGGGGCA CAGGGGGTTC   120
GACGGGCGAT GCTGATGGCC CAGGAGGCCC TGGCATTCCT GATGGCCCAG GGGGCAATGC   180
TGGCGGCCCA GGAGAGGCGG GTGCCACGGG CGGCAGAGGT CCCCGGGGCG CAGGGGCAGC   240
AAGGGCCTCG GGGCCGGGAG GAGGCGCCCC GCGGGGTCCG CATGGCGGCG CGGCTTCAGG   300
GCTGAATGGA TGCTGCAGAT GCGGGGCCAG GGGGCCGGAG AGCCGCCTGC TTGAGTTCTA   360
CCTCGCCATG CCTTTCGCGA CACCCATGGA AGCAGAGCTG GCCCGCAGGA GCCTGGCCCA   420
GGATGCCCCA CCGCTTCCCG TGCCAGGGGT GCTTCTGAAG GAGTTCACTG TGTCCGGCAA   480
CATACTGACT ATCCGACTGA CTGCTGCAGA CCACCGCCAA CTGCAGCTCT CCATCAGCTC   540
CTGTCTCCAG CAGCTTTCCC TGTTGATGTG GATCACGCAG TGCTTTCTGC CCGTGTTTTT   600
GGCTCAGCCT CCCTCAGGGC AGAGGCGCTA AGCCCAGCCT GGCGCCCCTT CCTAGGTCAT   660
GCCTCCTCCC CTAGGGAATG GTCCCAGCAC GAGTGGCCAG TTCATTGTGG GGGCCTGATT   720
GTTTGTCGCT GGAGGAGGAC GGCTTACATG TTTGTTTCTG TAGAAAATAA AACTGAGCTA
```

Seq ID NO: 210 Protein sequence:
Protein Accession #: NP_001318.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MQAEGRGTGG STGDADGPGG PGIPDGPGGN AGGPGEAGAT GGRGPRGAGA ARASGPGGGA    60
PRGPHGGAAS GLNGCCRCGA RGPESRLLEF YLAMPFATPM EAELARRSLA QDAPPLPVPG   120
VLLKEFTVSG NILTIRLTAA DHRQLQLSIS SCLQQLSLLM WITQCFLPVF LAQPPSGQRR
```

Seq ID NO: 211 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 52-459

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1           11          21          31          41          51
|           |           |           |           |           |
CCTCGTGGGC CCTGACCTTC TCTCTGAGAG CCGGGCAGAG GCTCCGGAGC CATGCAGGCC    60
GAAGGCCAGG GCACAGGGGG TTCGACGGGC GATGCTGATG GCCCAGGAGG CCCTGGCATT   120
CCTGATGGCC CAGGGGGCAA TGCTGGCGGC CCAGGAGAGG CGGGTGCCAC GGGCGGCAGA   180
GGTCCCCGGG GCGCAGGGGC AGCAAGGGCC TCGGGGCCGA GAGGAGGCGC CCCGCGGGGT   240
CCGCATGGCG GTGCCGCTTC TGCGCAGGAT GGAAGGTGCC CCTGCGGGGC CAGGAGGCCG   300
```

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GACAGCCGCC TGCTTCAGTT CCGACTGACT GCTGCAGACC ACCGCCAACT GCAGCTCTCC   360
ATCAGCTCCT GTCTCCAGCA GCTTTCCCTG TTGATGTGGA TCACGCAGTG CTTTCTGCCC   420
GTGTTTTTGG CTCAGGCTCC CTCAGGGCAG AGGCGCTAAG CCCAGCCTGG CGCCCCTTCC   480
TAGGTCATGC CTCCTCCCCT AGGGAATGGT CCCAGCACGA GTGGCCAGTT CATTGTGGGG   540
GCCTGATTGT TTGTCGCTGG AGGAGGACGG CTTACATGTT TGTTTCTGTA GAAAATAAAG   600
CTGAGCTA

Seq ID NO: 212 Protein sequence:
Protein Accession #: Eos sequence

1           11          21          31          41          51
|           |           |           |           |           |
MQAEGQGTGG STGDADGPGG PGIPDGPGGN AGGPGEAGAT GGRGPRGAGA ARASGPRGGA    60
PRGPHGGAAS AQDGRCPCGA RRPDSRLLQF RLTAADHRQL QLSISSCLQQ LSLLMWITQC   120
FLPVFLAQAP SGQRR

Seq ID NO: 213 DNA sequence
Nucleic Acid Accession #: NM_000555
Coding sequence: 416..1498

1           11          21          31          41          51
|           |           |           |           |           |
CTTATTTTTT ATGAATGTCG GATAGCTGCA CCAGCTTGGT GGGGAAAGGG TTTGATGAAT    60
AGCACAAAGA CACTGGCTGT TCCCTGGAGG CTGTCCCTTT AAAGGAGAAT CTTAGTTTAT   120
TCTGGGGGGA GGGGATGCAC ACATTAGAGT AGGAAAGAGG GCTTGGAATA AAATGAAAAC   180
ACTCCCCCTT CATAGTCATT GTACTGAAAT GCAAAGACTG CTTCCTAAGC TGGAGATGCT   240
AACCTTGGGT AGCTCCTTCT GTTCTCTTCA AGGGGAATTT TGTCAGGCTA TGGATTCATT   300
TACAACTGTT AGTCATGTGG GCATGTGTGA GGAAACAGAT GCCAGTTTTA ATGTATTTAG   360
CCCGAAGTTC CAATTTGATA GGAGCCACTG TCAGTCTCTG AGGTTCCACC AAAATATGGA   420
ACTTGATTTT GGACACTTTG ACGAAAGAGA TAAGACATCC AGGAACATGC GAGGCTCCCG   480
GATGAATGGG TTGCCTAGCC CCACTCACAG CGCCCACTGT AGCTTCTACC GAACCAGAAC   540
CTTGCAGGCA CTGAGTAATG AGAAGAAAGC CAAGAAGGTA CGTTTCTACC GCAATGGGGA   600
CCGCTACTTC AAGGGGATTG TGTACGCTGT GTCCTCTGAC CGTTTTCGCA GCTTTGACGC   660
CTTGCTGGCT GACCTGACGC GATCTCTGTC TGACAACATC AACCTGCCTC AGGGAGTGCG   720
TTACATTTAC ACCATTGATG GATCCAGGAA GATCGGAAGC ATGGATGAAC TGGAGGAAGG   780
GGAAAGCTAT GTCTGTTCCT CAGACAACTT CTTTAAAAAG GTGGAGTACA CCAAGAATGT   840
CAATCCCAAC TGGTCTGTCA ACGTAAAAAC ATCTGCCAAT ATGAAAGCCC CCCAGTCCTT   900
GGCTAGCAGC AACAGTGCAC AGGCCAGGGA GAACAAGGAC TTTGTGCGCC CCAAGCTGGT   960
TACCATCATC CGCAGTGGGG TGAAGCCTCG GAAGGCTGTG CGTGTGCTTC TGAACAAGAA  1020
GACAGCCCAC TCTTTTGAGC AAGTCCTCAC TGATATCACA GAAGCCATCA AACTGGAGAC  1080
CGGGGTTGTC AAAAAACTCT ACACTCTGGA TGGAAAACAG GTAACTTGTC TCCATGATTT  1140
CTTTGGTGAT GATGATGTGT TTATTGCCTG TGGTCCTGAA AAATTTCGCT ATGCTCAGGA  1200
TGATTTTTCT CTGGATGAAA ATGAATGCCG AGTCATGAAG GGAAACCCAT CAGCCACAGC  1260
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CAAGTCTAAG CAGTCTCCCA TCTCTACGCC CACCAGTCCT GGCAGCCTCC GGAAGCACAA  1440
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TCTGCTCAAG TGTCCAACAG GGCTATTGGT GCTTTCAAGT TTTTATTTTG TTGTTGTTGT  1620
TATTTTGAAA AACACATTGT AATATGTTGG GTTTATTTTC CTGTGATTTC TCCTCTGGGC  1680
CACTGATCCA CAGTTACCAA TTATGAGAGA TAGATTGATA ACCATCCTTT GGGGCAGCAT  1740
TCCAGGGATG CAAAATGTGC TAGTCCATGA CCTTTCAATG GAAAGCTTAG GGGCCTGGGG  1800
TAAATTTGCC CCGTTTAAAT TTGCCCAAAC AGTTTTCCTT TTGTAGAGGG GTGTTTAAAT  1860
ATACAGCAAT TAAAAAGTTT GTGTGGGGAA AAAAAAAACT CATTGGCAGA TCCAAGAATG  1920
ACAAACACAA GTGCCCCTTT TCTCTGGATC TCAAGAATGG TGGAGGACCC TGGAAGGACA  1980
GCAAGGCAGC TCCCCAGCCT CACTCTTCAC TCCTGATTGA GGCCCGGGTT TGTTGTCCAG  2040
CACCAATTCT GGCTGTCAAT GGGGAGAAAT AAACCAACAA CTTATAATTG TGACACCAGA  2100
TGCTTAGGAT CCTGGTGCTG GGTTAGCTAA GAGAATAGAC AGAATTGGAA AATACTGCAG  2160
ACATTTCCGA AGAGTTTATA AAGCACAGTG AATTCCTGGT CAATCTCTCC ACTGAGGCAA  2220
TTTGGAATCA ATAAGCAATT GATAATAGTT TGGAGTAAGG GACTTCATAT ACCTGATTCC  2280
TCTAGAAGGC TGTCTAACAT ACCACATGAT TACATGAACT GTATGGTATC CATCTATCTC  2340
TGTTCTATTG AATGCCTTGT TAACAGCCAA CACTGAAAAC ACTGTGAGAA TTTGTTTTCA  2400
GGTCTGACAC CTTTCAGTCT CTTTTTATAG CAAGAAATCA ATATCCTTTT TATAAAAATT  2460
CATGTCTGTA TTTCAGGAGC AAACTCTTCA GGCTCCTTTT TTATAAACTG GTGATTTTTC  2520
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GCCCATAATG GCAAAAACAA CTAATTTTAA TTGAAGGTCT TGCTTGCCAN TCCTGTGTTG  3000
GCTTTNACCA AATATAAAAA TTCCCTTATT CCTTGGTAAT GGTGCAAATN TTTGGAAAGG  3060
CACAGCATCC AAACCAAGCT GCTGTTTGGC TACTGAATGG CTTGCAGTTG TTCCTCCACT  3120
CTAAATGGAA TGAGCTTGCT GTGTGTGTGT GTGGTGGTGG TGGGAGGGGG TGGTGCATGT  3180
GTGTGTGTGT GTGTGCATCT GCAGCTGCTT CAAAATTAAG AAATACTACA AGACACCCCT  3240
GTAATGGATT GGTGGCAACT GGGTGGCACT GCTGATGTGC ACTGTGTAGG GGGGAACCCA  3300
GTGGTGGTGG GGTATCTCAA ATGCCCCTAG ACAAGCTTCA GATGTCTGTA GCTACCAAAA  3360
ACATTTTCGG TTCAAGAAAA GTGAGATGAT GGTAGTACTG GTTTCTGGTG AAATTGAAAA  3420
ACCCCAAATG ATGAGGATCT CTTTTTGCCC CCTCTCCTTT TTTTGTAAAC CCATTCAAAA  3480
CCATTAATAA GCCCATTTTA CTAANCCCCT ATTTCTTTCT AGAAGCTCAG GGTTTNCTTA  3540
GTGCCTCCCA NAACATTTTG TAGTTAATTG GGAAAAAGTG ATACTTGGAT TAGGGGGTGT  3600
GGGCATAAAG AATGGTGGGA GGCCTGATTT TAAAATTCAG GCCAGAACCC CCAATGACTC  3660
CACCCATAGT NTCACTTTAG GTCTCATTTA GTCCATCACC TTTATTTTAA GTTGAGGAAG  3720
TGGAGGCTGG TAAAGAGCAG GACCAGAGGA AGAATCCAGA TTTCCTTATG CTTGGGCCTC  3780
ACACTAGCTC TNTGAGTATT TCCTTGATTG CGGTATATGT ACTACTAGAA AATACCAAAT  3840
GGATATATTT TCTTTAGGAT AACCTTTGAA CCAACAATNT TCAATAACAA TAGTACATCT  3900
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TGTTAATTTT TGCACGGTCT ACACACATCA AGTCAGCAAG CATTTGCCAC CACTCCCTAT 4200
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CTTTCCAGGC TGAGGGAAAT GTTTCTTGTT TCCANAGTAN AAAAAAGAAA GAGTGGAACA 5100
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CAAACACATG GTTTTCCTTG CTGCAAGGCT NTTCCTGGGA ACTAAGGGGG TATTTATTAG 5520
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TCCTAAAGCC TGGTCCCCAA AAATTGTTTT TGTCTCCAAA AGTCTAGTAT GGTCTTTATA 6300
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TCACTGCTTG GCAATACCAT ATGGCATGCC AAAATTTACA ATGACTTTTC TTTATAAGTT 8040
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GTAATATATT GCAGCTTGAA GCCAATGATC CCTTATGACT TGTATACAAC TAATGCATGT 8160
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NTGTGCCATT AAACTTGTAC AGAAAATGTT TTTATGGCCA TTTTCAAAGG GAGAAAGTTT 8280
AAAATGGAAA CAGCCCACCC TTTCTGCCCT ATAGCTGTAG TTAGAATTGA GTACCTGTAG 8340
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TGGTTTGCTG ACCCCACTTG GACTGGTAGG TTTGGTGAGG CCCCCATAAA CCAGCTGGAG 9120

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CAGACCCTTT TCATCTCCTG TGCCTGTAAC ACCCCTCTTC CCCCACCCCC TCCGCAATTC  9180
AATGAGGGCT TTCTTGGGTC AGAGGACTTC AAGGTTGTCT AGAGAAGTTT GCCATGTGTG  9240
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AGCTGCTCTT GCAATTATTT TGGCTCTCAA GCTCTGTTCT TCATCGCATT CTCATTTCTG  9360
TGTACATTTG CAAGATGTGT GTAATGTCAT TTTCCAAAAA TAAAATTTGA TTTCAAT
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Seq ID NO: 214 Protein sequence:
Protein Accession #: NP_000546

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1           11          21          31          41          51
|           |           |           |           |           |
MELDFGHFDE RDKTSRNMRG SRMNGLPSPT HSAHCSFYRT RTLQALSNEK KAKKVRFYRN    60
GDRYFKGIVY AVSSDRFRSF DALLADLTRS LSDNINLPQG VRYIYTIDGS RKIGSMDELE   120
EGESYVCSSD NFFKKVEYTK NVNPNWSVNV KTSANMKAPQ SLASSNSAQA RENKDFVRPK   180
LVTIIRSGVK PRKAVRVLLN KKTAHSFEQV LTDITEAIKL ETGVVKKLYT LDGKQVTCLH   240
DFFGDDDVFI ACGPEKFRYA QDDFSLDENE CRVMKGNPSA TAGPKASPTP QKTSAKSPGP   300
MRRSKSPADS ANGTSSSQLS TPKSKQSPIS TPTSPGSLRK HKDLYLPLSL DDSDSLGDSM
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Seq ID NO: 215 DNA sequence
Nucleic Acid Accession #: NM_130467
Coding sequence: 312..644

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1           11          21          31          41          51
|           |           |           |           |           |
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CTTTCCAACA TCTTCGTTCT TTCTCACTGA CCGAGACTCA GCCGGTAGGT CTGCAGAGTG   120
GTCTTCCTGG TAATTTAGTT GTGAGTGAAT GTGTGGAGGA GCCAGCGGGC TTAGGACAGG   180
TCCTGTGGCA CAGTCCGTGG CTTTGAGGGA AAAGGGCCTC GCGGTGGTCC TCCGCCTTCC   240
CCCAGGTCGT GATGCAGGCG CCATGGGCCG GTAATCGTGG CTGGGCTGGA ACGAGGGAGG   300
AAGTGAGAGA TATGAGTGAG CATGTAACAA GATCCCAATC CTCAGAAAGA GGAAATGACC   360
AAGAGTCTTC CCAGCCAGTT GGACCTGTGA TTGTCCAGCA GCCCACTGAG GAAAAACGTC   420
AAGAAGAGGA ACCACCAACT GATAATCAGG GTATTGCACC TAGTGGGGAG ATCAAAAATG   480
AAGGAGCACC TGCTGTTCAA GGGACTGATG TGGAAGCTTT TCAACAGGAA CTGGCTCTGC   540
TTAAGATAGA GGATGCACCT GGAGATGGTC CTGATGTCAG GGAGGGGACT CTGCCCACTT   600
TTGATCCCAC TAAAGTGCTG GAAGCAGGTG AAGGGCAACT ATAGGTTTAA ACCAAGACAA   660
ATGAAGACTG AAACCAAGAA TATTGTTCTT ATGCTGGAAA TTTGACTGCT AACATTCTCT   720
TAATAAAGTT TTACAGTTTT CTGCAAAAAA AAAAAAAAAA AAA
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Seq ID NO: 216 Protein sequence:
Protein Accession #: NP_569734

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1           11          21          31          41          51
|           |           |           |           |           |
MSEHVTRSQS SERGNDQESS QPVGPVIVQQ PTEEKRQEEE PPTDNQGIAP SGEIKNEGAP    60
AVQGTDVEAF QQELALLKIE DAPGDGPDVR EGTLPTFDPT KVLEAGEGQL
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Seq ID NO: 217 DNA sequence
Nucleic Acid Accession #: NM_001476.1
Coding sequence: 82..435

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1           11          21          31          41          51
|           |           |           |           |           |
GCCAGGGAGC TGTGAGGCAG TGCTGTGTGG TTCCTGCCGT CCGGACTCTT TTTCCTCTAC    60
TGAGATTCAT CTGTGTGAAA TATGAGTTGG CGAGGAAGAT CGACCTATTA TTGGCCTAGA   120
CCAAGGCGCT ATGTACAGCC TCCTGAAGTG ATTGGGCCTA TGCGGCCCGA GCAGTTCAGT   180
GATGAAGTGG AACCAGCAAC ACCTGAAGAA GGGGAACCAG CAACTCAACG TCAGGATCCT   240
GCAGCTGCTC AGGAGGGAGA GGATGAGGGA GCATCTGCAG GTCAAGGGCC GAAGCCTGAA   300
GCTGATAGCC AGGAACAGGG TCACCCACAG ACTGGGTGTG AGTGTGAAGA TGGTCCTGAT   360
GGGCAGGAGG TGGACCCGCC AAATCCAGAG GAGGTGAAAA CGCCTGAAGA AGGTGAAAAG   420
CAATCACAGT GTTAAAAGAA GACACGTTGA AATGATGCAG GCTGCTCCTA TGTTGGAAAT   480
TTGTTCATTA AAATTCTCCC AATAAAGCTT TACAGCCTTC TGCAAAA
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Seq ID NO: 218 Protein sequence:
Protein Accession #: NP_001467.1

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1           11          21          31          41          51
|           |           |           |           |           |
MSWRGRSTYY WPRPRRYVQP PEVIGPMRPE QFSDEVEPAT PEEGEPATQR QDPAAAQEGE    60
DEGASAGQGP KPEADSQEQG HPQTGCECED GPDGQEVDPP NPEEVKTPEE GEKQSQC
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Seq ID NO: 219 DNA sequence
Nucleic Acid Accession #: NM_001476
Coding sequence: 90-3671

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1           11          21          31          41          51
|           |           |           |           |           |
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AGACAGAGAC TGAGCGGCCC GGCACCGCCA TGCCTGCGCT CTGGCTGGGC TGCTGCCTCT   120
GCTTCTCGCT CCTCCTGCCC GCAGCCCGGG CCACCTCCAG GAGGGAAGTC TGTGATTGCA   180
ATGGGAAGTC CAGGCAGTGT ATCTTTGATC GGGAACTTCA CAGACAAACT GGTAATGGAT   240
TCCGCTGCCT CAACTGCAAT GACAACACTG ATGGCATTCA CTGCGAGAAG TGCAAGAATG   300
GCTTTTACCG GCACAGAGAA AGGGACCGCT GTTTGCCCTG CAATTGTAAC TCCAAAGGTT   360
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CTCTTAGTGC TCGATGTGAC AACTCTGGAC GGTGCAGCTG TAAACCAGGT GTGACAGGAG   420
CCAGATGCGA CCGATGTCTG CCAGGCTTCC ACATGCTCAC GGATGCGGGG TGCACCCAAG   480
ACCAGAGACT GCTAGACTCC AAGTGTGACT GTGACCCAGC TGGCATCGCA GGGCCCTGTG   540
ACGCGGGCCG CTGTGTCTGC AAGCCAGCTG TTACTGGAGA ACGCTGTGAT AGGTGTCGAT   600
CAGGTTACTA TAATCTGGAT GGGGGGAACC CTGAGGGCTG TACCCAGTGT TTCTGCTATG   660
GGCATTCAGC CAGCTGCCGC AGCTCTGCAG AATACAGTGT CCATAAGATC ACCTCTACCT   720
TTCATCAAGA TGTTGATGGC TGGAAGGCTG TCCAACGAAA TGGGTCTCCT GCAAAGCTCC   780
AATGGTCACA GCGCCATCAA GATGTGTTTA GCTCAGCCCA ACGACTAGAC CCTGTCTATT   840
TTGTGGCTCC TGCCAAATTT CTTGGGAATC AACAGGTGAG CTATGGGCAA AGCCTGTCCT   900
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GTGCTGGTCT ACGGATCACA GCTCCCTTGA TGCCACTTGG CAAGACACTG CCTTGTGGGC  1020
TCACCAAGAC TTACACATTC AGGTTAAATG AGCATCCAAG CAATAATTGG AGCCCCCAGC  1080
TGAGTTACTT TGAGTATCGA AGGTTACTGC GGAATCTCAC AGCCCTCCGC ATCCGAGCTA  1140
CATATGGAGA ATACAGTACT GGGTACATTG ACAATGTGAC CCTGATTTCA GCCCGCCCTG  1200
TCTCTGGAGC CCCAGCACCC TGGGTTGAAC AGTGTATATG TCCTGTTGGG TACAAGGGGC  1260
AATTCTGCCA GGATTGTGCT TCTGGCTACA AGAGAGATTC AGCGAGACTG GGGCCTTTTG  1320
GCACCTGTAT TCCTTGTAAC TGTCAAGGGG GAGGGGCCTG TGATCCAGAC ACAGGAGATT  1380
GTTATTCAGG GGATGAGAAT CCTGACATTG AGTGTGCTGA CTGCCCAATT GGTTTCTACA  1440
ACGATCCGCA CGACCCCCGC AGCTGCAAGC CATGTCCCTG TCATAACGGG TTCAGCTGCT  1500
CAGTGATGCC GGAGACGGAG GAGGTGGTGT GCAATAACTG CCCTCCCGGG GTCACCGGTG  1560
CCCGCTGTGA GCTCTGTGCT GATGGCTACT TTGGGGACCC CTTTGGTGAA CATGGCCCAG  1620
TGAGGCCTTG TCAGCCCTGT CAATGCAACA ACAATGTGGA CCCCAGTGCC TCTGGGAATT  1680
GTGACCGGCT GACAGGCAGG TGTTTGAAGT GTATCCACAA CACAGCCGGC ATCTACTGCG  1740
ACCAGTGCAA AGCAGGCTAC TTCGGGGACC CATTGGCTCC CAACCCAGCA GACAAGTGTC  1800
GAGCTTGCAA CTGTAACCCC ATGGGCTCAG AGCCTGTAGG ATGTCGAAGT GATGGCACCT  1860
GTGTTTGCAA GCCAGGATTT GGTGGCCCCA ACTGTGAGCA TGGAGCATTC AGCTGTCCAG  1920
CTTGCTATAA TCAAGTGAAG ATTCAGATGG ATCAGTTTAT GCAGCAGCTT CAGAGAATGG  1980
AGGCCCTGAT TTCAAAGGCT CAGGGTGGTG ATGGAGTAGT ACCTGATACA GAGCTGGAAG  2040
GCAGGATGCA GCAGGCTGAG CAGGCCCTTC AGGACATTCT GAGAGATGCC CAGATTTCAG  2100
AAGGTGCTAG CAGATCCCTT GGTCTCCAGT TGGCCAAGGT GAGGAGCCAA GAGAACAGCT  2160
ACCAGAGCCG CCTGGATGAC CTCAAGATGA CTGTGGAAAG AGTTCGGGCT CTGGGAAGTC  2220
AGTACCAGAA CCGAGTTCGG GATACTCACA GGCTCATCAC TCAGATGCAG CTGAGCCTGG  2280
CAGAAAGTGA AGCTTCCTTG GGAAACACTA ACATTCCTGC CTCAGACCAC TACGTGGGGC  2340
CAAATGGCTT TAAAAGTCTG GCTCAGGAGG CCACAAGATT AGCAGAAAGC CACGTTGAGT  2400
CAGCCAGTAA CATGGAGCAA CTGACAAGGG AAACTGAGGA CTATTCCAAA CAAGCCCTCT  2460
CACTGGTGCG CAAGGCCCTG CATGAAGGAG TCGGAAGCGG AAGCGGTAGC CCGGACGGTG  2520
CTGTGGTGCA AGGGCTTGTG GAAAAATTGG AGAAAACCAA GTCCCTGGCC CAGCAGTTGA  2580
CAAGGGAGGC CACTCAAGCG GAAATTGAAG CAGATAGGTC TTATCAGCAC AGTCTCCGCC  2640
TCCTGGATTC AGTGTCTCGG CTTCAGGGAG TCAGTGATCA GTCCTTTCAG GTGGAAGAAG  2700
CAAAGAGGAT CAAACAAAAA GCGGATTCAC TCTCAACGCT GGTAACCAGG CATATGGATG  2760
AGTTCAAGCG TACACAAAAG AATCTGGGAA ACTGGAAAGA AGAAGCACAG CAGCTCTTAC  2820
AGAATGGAAA AAGTGGGAGA GAGAAATCAG ATCAGCTGCT TTCCCGTGCC AATCTTGCTA  2880
AAAGCAGAGC ACAAGAAGCA CTGAGTATGG GCAATGCCAC TTTTTATGAA GTTGAGAGCA  2940
TCCTTAAAAA CCTCAGAGAG TTTGACCTGC AGGTGGACAA CAGAAAAGCA GAAGCTGAAG  3000
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AGCAAGCAGA AAGAGCCCTG GGGAGCGCTG CTGCTGATGC ACAGAGGGCA AAGAATGGGG  3120
CCGGGGAGGC CCTGGAAATC TCCAGTGAGA TTGAACAGGA GATTGGGAGT CTGAACTTGG  3180
AAGCCAATGT GACAGCAGAT GGAGCCTTGG CCATGGAAAA GGGACTGGCC TCTCTGAAGA  3240
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AGACCCAGAT CAACAGCCAA CTGCGGCCCA TGATGTCAGA GCTGGAAGAG AGGGCACGTC  3540
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ATGAAATTCT TCCTAATGTC AGAACAGAGT GCAACCCAGT CACACTGTGG CCAGTAAAAT  4140
ACTATTGCCT CATATTGTCC TCTGCAAGCT TCTTGCTGAT CAGAGTTCCT CCTACTTACA  4200
ACCCAGGGTG TGAACATGTT CTCCATTTTC AAGCTGGAAG AAGTGAGCAG TGTTGGAGTG  4260
AGGACCTGTA AGGCAGGCCC ATTCAGAGCT ATGGTGCTTG CTGGTGCCTG CCACCTTCAA  4320
GTTCTGGACC TGGGCATGAC ATCCTTTCTT TTAATGATGC CATGGCAACT TAGAGATTGC  4380
ATTTTTATTA AAGCATTTCC TACCAGCAAA GCAAATGTTG GGAAAGTATT TACTTTTTCG  4440
GTTTCAAAGT GATAGAAAAG TGTGGCTTGG GCATTGAAAG AGGTAAAATT CTCTAGATTT  4500
ATTAGTCCTA ATTCAATCCT ACTTTTCGAA CACCAAAAAT GATGCGCATC AATGTATTTT  4560
ATCTTATTTT CTCAATCTCC TCTCTCTTTC CTCCACCCAT AATAAGAGAA TGTTCCTACT  4620
CACACTTCAG CTGGGTCACA TCCATCCCTC CATTCATCCT TCCATCCATC TTTCCATCCA  4680
TTACCTCCAT CCATCCTTCC AACATATATT TATTGAGTAC CTACTGTGTG CCAGGGGCTG  4740
GTGGGACAGT GGTGACATAG TCTCTGCCCT CATAGAGTTG ATTGTCTAGT GAGGAAGACA  4800
AGCATTTTTA AAAAATAAAT TTAAACTTAC AAACTTTGTT TGTCACAAGT GGTGTTTATT  4860
GCAATAACCG CTTGGTTTGC AACCTCTTTG CTCAACAGAA CATATGTTGC AAGACCCTCC  4920
CATGGGGGCA CTTGAGTTTT GGCAAGGCTG ACAGAGCTCT GGGTTGTGCA CATTTCTTTG  4980
CATTCCAGCT GTCACTCTGT GCCTTTCTAC AACTGATTGC AACAGACTGT TGAGTTATGA  5040
TAACACCAGT GGGAATTGCT GGAGGAACCA GAGGCACTTC CACCTTGGCT GGGAAGACTA  5100
TGGTGCTGCC TTGCTTCTGT ATTTCCTTGG ATTTTCCTGA AAGTGTTTTT AAATAAAGAA  5160
CAATTGTTAG ATGCC
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Seq ID NO: 220 Protein sequence:
Protein Accession #:NP_005553

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DGIHCEKCKN GFYRHRERDR CLPCNCNSKG SLSARCDNSG RCSCKPGVTG ARCDRCLPGF   120
HMLTDAGCTQ DQRLLDSKCD CDPAGIAGPC DAGRCVCKPA VTGERCDRCR SGYYNLDGGN   180
PEGCTQCFCY GHSASCRSSA EYSVHKITST FHQDVDGWKA VQRNGSPAKL QWSQRHQDVF   240
SSAQRLDPVY FVAPAKFLGN QQVSYGQSLS FDYRVDRGGR HPSAHDVILE GAGLRITAPL   300
MPLGKTLPCG LTKTYTFRLN EHPSNNWSPQ LSYFEYRRLL RNLTALRIRA TYGEYSTGYI   360
DNVTLISARP VSGAPAPWVE QCICPVGYKG QFCQDCASGY KRDSARLGPF GTCIPCNCQG   420
GGACDPDTGD CYSGDENPDI ECADCPIGFY NDPHDPRSCK PCPCHNGFSC SVMPETEEVV   480
CNNCPPGVTG ARCELCADGY FGDPFGEHGP VRPCQPCQCN NNVDPSASGN CDRLTGRCLK   540
CIHNTAGIYC DQCKAGYFGD PLAPNPADKC RACNCNPMGS EPVGCRSDGT CVCKPGFGGP   600
NCEHGAFSCP ACYNQVKIQM DQFMQQLQRM EALISKAQGG DGVVPDTELE GRMQQAEQAL   660
QDILRDAQIS EGASRSLGLQ LAKVRSQENS YQSRLDDLKM TVERVRALGS QYQNRVRDTH   720
RLITQMQLSL AESEASLGNT NIPASDHYVG PNGFKSLAQE ATRLAESHVE SASNMEQLTR   780
ETEDYSKQAL SLVRKALHEG VGSGSGSPDG AVVQGLVEKL EKTKSLAQQL TREATQAEIE   840
ADRSYQHSLR LLDSVSRLQG VSDQSFQVEE AKRIKQKADS LSTLVTRHMD EFKRTQKNLG   900
NWKEEAQQLL QNGKSGREKS DQLLSRANLA KSRAQEALSM GNATFYEVES ILKNLREFDL   960
QVDNRKAEAE EAMKRLSYIS QKVSDASDKT QQAERALGSA AADAQRAKNG AGEALEISSE  1020
IEQEIGSLNL EANVTADGAL AMEKGLASLK SEMREVEGEL ERKELEFDTN MDAVQMVITE  1080
AQKVDTRAKN AGVTIQDTLN TLDGLLHLMD QPLSVDEEGL VLLEQKLSRA KTQINSQLRP  1140
MMSELEERAR QQRGHLHLLE TSIDGILADV KNLENIRDNL PPGCYNTQAL EQQ
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Seq ID NO: 221 DNA sequence
Nucleic Acid Accession #: NM_016529
Coding sequence: 13-1854

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AAAGGGGCTG ATAATGTGAT TTTTGAGAGA CTTTCAAAAG ACTCAAAATA TATGGAGGAA   120
ACATTATGCC ATCTGGAATA CTTTGCCACG GAAGGCTTGC GGACTCTCTG TGTGGCTTAT   180
GCTGATCTCT CTGAGAATGA GTATGAGGAG TGGCTGAAAG TCTATCAGGA AGCCAGCACC   240
ATATTGAAGG ACAGAGCTCA ACGGTTGGAA GAGTGTTACG AGATCATTGA GAAGAATTTG   300
CTGCTACTTG GAGCCACAGC CATAGAAGAT CGCCTTCAAG CAGGAGTTCC AGAAACCATC   360
GCAACACTGT TGAAGGCAGA AATTAAAATA TGGGTGTTGA CAGGAGACAA ACAAGAAACT   420
GCGATTAATA TAGGGTATTC CTGCCGATTG GTATCGCAGA ATATGGCCCT TATCCTATTG   480
AAGGAGGACT CTTTGGATGC CACAAGGGCA GCCATTACTC AGCACTGCAC TGACCTTGGG   540
AATTTGCTGG GCAAGGAAAA TGACGTGGCC CTCATCATCG ATGGCCACAC CCTGAAGTAC   600
GCGCTCTCCT TCGAAGTCCG GAGGAGTTTC CTGGATTTGG CACTCTCGTG CAAAGCGGTC   660
ATATGCTGCA GAGTGTCTCC TCTGCAGAAG TCTGAGATAG TGGATGTGGT GAAGAAGCGG   720
GTGAAGGCCA TCACCCTCGC CATCGGAGAC GGCGCCAACG ATGTCGGGAT GATCCAGACA   780
GCCCACGTGG GTGTGGGAAT CAGTGGGAAT GAAGGCATGC AGGCCACCAA CAACTCGGAT   840
TACGCCATCG CACAGTTTTC CTACTTAGAG AAGCTTCTGT TGGTTCATGG AGCCTGGAGC   900
TACAACCGGG TGACCAAGTG CATCTTGTAC TGCTTCTATA AGAACGTGGT CCTGTATATT   960
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TGCATCGGCC TGTACAATGT GATTTTCACC GCTTTGCCGC CCTTCACTCT GGGAATCTTT  1080
GAGAGGTCTT GCACTCAGGA GAGCATGCTC AGGTTTCCCC AGCTCTACAA AATCACCCAG  1140
AATGGCGAAG GCTTCAACAC AAAGGTTTTC TGGGGTCACT GCATCAACGC CTTGGTCCAC  1200
TCCCTCATCC TCTTCTGGTT TCCCATGAAA GCTCTGGAGC ATGATACTGT GTTTGACAGT  1260
GGTCATGCTA CCGACTATTT ATTTGTTGGA AATATTGTTT ACACATATGT TGTTGTTACT  1320
GTTTGTCTGA AAGCTGGTTT GGAGACCACA GCTTGGACTA AATTCAGTCA TCTGGCTGTC  1380
TGGGGAAGCA TGCTGACCTG GCTGGTGTTT TTTGGCATCT ACTCGACCAT CTGGCCCACC  1440
ATTCCCATTG CTCCAGATAT GAGAGGACAG GCAACTATGG TCCTGAGCTC CGCACACTTC  1500
TGGTTGGGAT TATTTCTGGT TCCTACTGCC TGTTTGATTG AAGATGTGGC ATGGAGAGCA  1560
GCCAAGCACA CCTGCAAAAA GACATTGCTG GAGGAGGTGC AGGAGCTGGA AACCAAGTCT  1620
CGAGTCCTGG GAAAAGCGGT GCTGCGGGAT AGCAATGGAA AGAGGCTGAA CGAGCGCGAC  1680
CGCCTGATCA AGAGGCTGGG CCGGAAGACG CCCCCGACGC TGTTCCGGGG CAGCTCCCTG  1740
CAGCAGGGCG TCCCGCATGG GTATGCTTTT TCTCAAGAAG AACACGGAGC TGTTAGTCAG  1800
GAAGAAGTCA TCCGTGCTTA TGACACCACC AAAAAGAAAT CCAGGAAGAA ATAAGACATG  1860
AATTTTCCTG ACTGATCTTA GGAAAGAGAT TCAGTTTGTT GCACCCAGTG TTAACACATC  1920
TTTGTCAGAG AAGACTGGCG TCCAAGGCCA AAACACCAGG AAACACATTT CTGTGGCCTT  1980
AGTTAAGCAG TTTGTTAGTT ACATATTCCC TCGCAAACCT GGAGTGCAGA CCACAGGGGA  2040
AGCTATCTTT GCCCTCCCAA CTCGTCTGCA GTGCTTAGCC TAACTTTTGT TTATGTCGTT  2100
ATGAAGCATT CAACTGTGCT CTGTGAGGTC TCAAATTAAA AACATTATGT TTCACCAATA  2160
AGAAAAAAAA AAAAAAA
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Seq ID NO: 222 Protein sequence:
Protein Accession #: NP_057613

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ENEYEEWLKV YQEASTILKD RAQRLEECYE IIEKNLLLLG ATAIEDRLQA GVPETIATLL   120
KAEIKIWVLT GDKQETAINI GYSCRLVSQN MALILLKEDS LDATRAAITQ HCTDLGNLLG   180
KENDVALIID GHTLKYALSF EVRRSFLDLA LSCKAVICCR VSPLQKSEIV DVVKKRVKAI   240
TLAIGDGAND VGMIQTAHVG VGISGNEGMQ ATNNSDYAIA QFSYLEKLLL VHGAWSYNRV   300
TKCILYCFYK NVVLYIIELW FAFVNGFSGQ ILFERWCIGL YNVIFTALPP FTLGIFERSC   360
TQESMLRFPQ LYKITQNGEG FNTKVFWGHC INALVHSLIL FWFPMKALEH DTVFDSGHAT   420
DYLFVGNIVY TYVVVTVCLK AGLETTAWTK FSHLAVWGSM LTWLVFFGIY STIWPTIPIA   480
PDMRGQATMV LSSAHFWLGL FLVPTACLIE DVAWRAAKHT CKKTLLEEVQ ELETKSRVLG   540
KAVLRDSNGK RLNERDRLIK RLGRKTPPTL FRGSSLQQGV PHGYAFSQEE HGAVSQEEVI   600
RAYDTTKKKS RKK
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Seq ID NO: 223 DNA sequence
Nucleic Acid Accession #: BC017001
Coding sequence: 1-394

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1           11          21          31          41          51
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CGCGCAGGGC GGCAGCATCC ACTCGGGCCG CATCGCCGCG GTGCACAACG TGCCGCTGAG   120
CGTGCTCATC CGGCCGCTGC CGTCCGTGTT GGACCCCGCC AAGGTGCAGA GCCTCGTGGA   180
CACGATCCGG GAGGACCCAG ACAGCGTGCC CCCCATCGAT GTCCTCTGGA TCAAAGGGGC   240
CCAGGGAGGT GACTACTTCT ACTCCTTTGG GGGCTGCCAC CGCTACGCGG CCTACCAGCA   300
ACTGCAGCGA GAGACCATCC CCGCCAAGCT TGTCCAGTCC ACTCTCTCAG ACCTAAGGGT   360
GTACCTGGGA GCATCCACAC CAGACTTGCA GTAGCAGCCT CCTTGGCACC TGCTGCCACC   420
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CTACAAGGCC TTGGACTCAC TGTACAGTGT GGGAGCCCCA GTTCCCACCT CTGTGACAAT   600
AGGATCATGG CCTTACCCTT GAAGCATTAC CGAGAAGGAG AACAGAGATG GGCTTGAAGA   660
GCCACGTGCT GCCGGCTCCA AATTCCCAAG GACAAGGATC CCTCTGCATT TTTGTCTATG   720
TAACCTCTTA TATGGACTAC ATTCAGCTGC AAGGAAAGGA AAACCTTGAT TGCAGTGGTT   780
TAAACAAACA GAAGATTGTT TTTCCACATA GCATGGATTC TGGAGATGGG TGGCTAATGG   840
TATTGGTTCA ACAACTCCAC GGAGGTAGGG GTCACGTCTT GGATCCTTTT GCCTTAATCT   900
CAGTGCTCGT TACTTCATGG TCCCAAGATG GCTGCTGTAT CCCCAAGAAT CATGTCTGCG   960
TTCAAGGAAG GAGGGGTGGA GGAAGAGGAA GGGCCAAACT AGCTGGACCC GTCACCTTCT  1020
ATCAGAAAGT AAAACCTCGT CAGAAGTCTG TTTCCTGCTC TCTCCCTCTG CATATCTTCA  1080
CTTAGATGCC CTTGGCCCGA GCCAGCTACC ATTGCACCTC TAGCTGCAAA CAAAGCTAAG  1140
ACAGCAGGGA ACAGAATTGT CATGGCTGAA TAGACCAATC GTGTTCCATC TACTGAGACT  1200
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GTGTCTTCAG TGCAATGTGG CATCCTGGAT TGGGTCTTGG AACAAAAACA GGACATTAGT  2280
GGGAAAATTG GAAATCTGAA AAAAGTCTGA ATTTTAGTTA ATATACCAAT TTCAGTCTCT. 2340
TGGTTTTGAC AGATGTACCA TGGTGATGTA AGATGTTGAC CTTGGGGTAG GCTGGGTGAA  2400
GGGTATACAG GAACTCTTTG TACTATCTCT GCAACTTCTC TGTAAATCTA GTATCATTCC  2460
AAAATAAAAG TTTATTTAAT TTAAAAAAAA AAAAAAAAAA AA
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Seq ID NO: 224 Protein sequence:
Protein Accession #: AAH17001.1

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TLGRAGAGRG APEGPGPSGG AQGGSIHSGR IAAVHNVPLS VLIRPLPSVL DPAKVQSLVD    60
TIREDPDSVP PIDVLWIKGA QGGDYFYSFG GCHRYAAYQQ LQRETIPAKL VQSTLSDLRV   120
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Seq ID NO: 225 DNA sequence
Nucleic Acid Accession #: NM_021048
Coding sequence: 1..1110

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TCCACTTCCA CCAGCTCCTC TTTTCCATCC TCTTTTCCCT CCTCCTCCTC TTCCTCCTCC   180
TCCTCCTGCT ATCCTCTAAT ACCAAGCACC CCAGAGGAGG TTTCTGCTGA TGATGAGACA   240
CCAAATCCTC CCCAGAGTGC TCAGATAGCC TGCTCCTCCC CCTCGGTCGT TGCTTCCCTT   300
CCATTAGATC AATCTGATGA GGGCTCCAGC AGCCAAAAGG AGGAGAGTCC AAGCACCCTA   360
CAGGTCCTGC CAGACAGTGA GTCTTTACCC AGAAGTGAGA TAGATGAAAA GGTGACTGAT   420
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GAGTGCATGC TGCTGGTCTT TGGCATTGAT GTAAAGGAAG TGGATCCCAC TGGCCACTCC   600
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ATGCCCAAGA CTGGCATTCT CATACTTATC CTAAGCATAA TCTTCATAGA GGGCTACTGC   720
ACCCCTGAGG AGGTCATCTG GGAAGCACTG AATATGATGG GGCTGTATGA TGGGATGGAG   780
CACCTCATTT ATGGGGAGCC CAGGAAGCTG CTCACCCAAG ATTGGGTGCA GGAAAACTAC   840
CTGGAGTACC GGCAGGTGCC TGGCAGTGAT CCTGCACGGT ATGAGTTTCT GTGGGGTCCA   900
AGGGCTCATG CTGAAATTAG GAAGATGAGT CTCCTGAAAT TTTTGGCCAA GGTAAATGGG   960
AGTGATCCAA GATCCTTCCC ACTGTGGTAT GAGGAGGCTT TGAAAGATGA GGAAGAGAGA  1020
GCCCAGGACA GAATTGCCAC CACAGATGAT ACTACTGCCA TGGCCAGTGC AAGTTCTAGC  1080
GCTACAGGTA GCTTCTCCTA CCCTGAATAA
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Seq ID NO: 226 Protein sequence:
Protein Accession #: NP_066386

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MPRAPKRQRC MPEEDLQSQS ETQGLEGAQA PLAVEEDASS STSTSSSFPS SFPSSSSSSS    60
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SSCYPLIPST PEEVSADDET PNPPQSAQIA CSSPSVVASL PLDQSDEGSS SQKEESPSTL   120
QVLPDSESLP RSEIDEKVTD LVQFLLFKYQ MKEPITKAEI LESVIKNYED HFPLLFSEAS   180
ECMLLVFGID VKEVDPTGHS FVLVTSLGLT YDGMLSDVQS MPKTGILILI LSIIFIEGYC   240
TPEEVIWEAL NMMGLYDGME HLIYGEPRKL LTQDWVQENY LEYRQVPGSD PARYEFLWGP   300
RAHAEIRKMS LLKFLAKVNG SDPRSFPLWY EEALKDEEER AQDRIATTDD TTAMASASSS   360
ATGSFSYPE

Seq ID NO: 227 DNA sequence
Nucleic Acid Accession #: NM_005025.1
Coding sequence: 82-1314

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AGTATGGCTA CAGGGGCCAC TTTCCCTGAG GAAGCCATTG CTGACTTGTC AGTGAATATG   180
TATAATCGTC TTAGAGCCAC TGGTGAAGAT GAAAATATTC TCTTCTCTCC ATTGAGTATT   240
GCTCTTGCAA TGGGAATGAT GGAACTTGGG GCCCAAGGAT CTACCCAGAA AGAAATCCGC   300
CACTCAATGG GATATGACAG CCTAAAAAAT GGTGAAGAAT TTTCTTTCTT GAAGGAGTTT   360
TCAAACATGG TAACTGCTAA AGAGAGCCAA TATGTGATGA AAATTGCCAA TTCCTTGTTT   420
GTGCAAAATG GATTTCATGT CAATGAGGAG TTTTTGCAAA TGATGAAAAA ATATTTTAAT   480
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TGGGTGGAGA ATAACACAAA CAATCTGGTG AAAGATTTGG TATCCCCAAG GGATTTTGAT   600
GCTGCCACTT ATCTGGCCCT CATTAATGCT GTCTATTTCA AGGGGAACTG GAAGTCGCAG   660
TTTAGGCCTG AAAATACTAG AACCTTTTCT TTCACTAAAG ATGATGAAAG TGAAGTCCAA   720
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GAAGCTGGTG GTATCTACCA AGTCCTAGAA ATACCATATG AAGGAGATGA AATAAGCATG   840
ATGCTGGTGC TGTCCAGACA GGAAGTTCCT CTTGCTACTC TGGAGCCATT AGTCAAAGCA   900
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AGGTTCACAG TGGAACAGGA AATTGATTTA AAAGATGTTT TGAAGGCTCT TGGAATAACT  1020
GAAATTTTCA TCAAAGATGC AAATTTGACA GGCCTCTCTG ATAATAAGGA GATTTTTCTT  1080
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GTCTCAGGAA TGATTGCAAT TAGTAGGATG GCTGTGCTGT ATCCTCAAGT TATTGTCGAC  1200
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GTCATGCATC CTGAAACAAT GAACACAAGT GGACATGATT TCGAAGAACT TTAAGTTACT  1320
TTATTTGAAT AACAAGGAAA ACAGTAACTA AGCACATTAT GTTTGCAACT GGTATATATT  1380
TAGGATTTGT GTTTTACAGT ATATCTTAAG ATAATATTTA AAATAGTTCC AGATAAAAAC  1440
AATATATGTA AATTATAAGT AACTTGTCAA GGAATGTTAT CAGTATTAAG CTAATGGTCC  1500
TGTTATGTCA TTGTGTTTGT GTGCTGTTGT TTAAAATAAA AGTACCTATT GAACATGTG

Seq ID NO: 228 Protein sequence:
Protein Accession #: NP_005016.1

1          11         21         31         41         51
|          |          |          |          |          |
MAFLGLFSLL VLQSMATGAT FPEEAIADLS VNMYNRLRAT GEDENILFSP LSIALAMGMM    60
ELGAQGSTQK EIRHSMGYDS LKNGEEFSFL KEFSNMVTAK ESQYVMKIAN SLFVQNGFHV   120
NEEFLQMMKK YFNAAVNHVD FSQNVAVANY INKWVENNTN NLVKDLVSPR DFDAATYLAL   180
INAVYFKGNW KSQFRPENTR TFSFTKDDES EVQIPMMYQQ GEFYYGEFSD GSNEAGGIYQ   240
VLEIPYEGDE ISMMLVLSRQ EVPLATLEPL VKAQLVEEWA NSVKKQKVEV YLPRFTVEQE   300
IDLKDVLKAL GITEIFIKDA NLTGLSDNKE IFLSKAIHKS FLEVNEEGSE AAAVSGMIAI   360
SRMAVLYPQV IVDHPFFFLI RNRRTGTILF MGRVMHPETM NTSGHDFEEL

Seq ID NO: 229 DNA sequence
Nucleic Acid Accession #: NM_003695
Coding sequence: 12-398

1          11         21         31         41         51
|          |          |          |          |          |
CGACATCAGA GATGAGGACA GCATTGCTGC TCCTTGCAGC CCTGGCTGTG GCTACAGGGC    60
CAGCCCTTAC CCTGCGCTGC CACGTGTGCA CCAGCTCCAG CAACTGCAAG CATTCTGTGG   120
TCTGCCCGGC CAGCTCTCGC TTCTGCAAGA CCACGAACAC AGTGGAGCCT CTGAGGGGGA   180
ATCTGGTGAA GAAGGACTGT GCGGAGTCGT GCACACCCAG CTACACCCTG CAAGGCCAGG   240
TCAGCAGCGG CACCAGCTCC ACCCAGTGCT GCCAGGAGGA CCTGTGCAAT GAGAAGCTGC   300
ACAACGCTGC ACCCACCCGC ACCGCCCTCG CCCACAGTGC CCTCAGCCTG GGGCTGGCCC   360
TGAGCCTCCT GGCCGTCATC TTAGCCCCCA GCCTGTGACC TTCCCCCCAG GGAAGGCCCC   420
TCATGCCTTT CCTTCCCTTT CTCTGGGGAT TCCACACCTC TCTTCCCCAG CCGGCAACGG   480
GGGTGCCAGG AGCCCCAGGC TGAGGGCTTC CCCGAAAGTC TGGGACCAGG TCCAGGTGGG   540
CATGGAATGC TGATGACTTG GAGCAGGCCC CACAGACCCC ACAGAGGATG AAGCCACCCC   600
ACAGAGGATG CAGCCCCCAG CTGCATGGAA GGTGGAGGAC AGAAGCCCTG TGGATCCCCG   660
GATTTCACAC TCCTTCTGTT TTGTTGCCGT TTATTTTGTA CTCAAATCTC TACATGGAGA   720
TAAATGATTT AAACC

Seq ID NO: 230 Protein sequence:
Protein Accession #: NP_003686

1          11         21         31         41         51
|          |          |          |          |          |
MRTALLLLAA LAVATGPALT LRCHVCTSSS NCKHSVVCPA SSRFCKTTNT VEPLRGNLVK    60
KDCAESCTPS YTLQGQVSSG TSSTQCCQED LCNEKLHNAA PTRTALAHSA LSLGLALSLL   120
AVILAPSL

Seq ID NO: 231 DNA sequence
Nucleic Acid Accession #:  Eos sequence
Coding sequence: 126-752
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1           11          21          31          41          51
|           |           |           |           |           |
CCGGGCAGGT GGCTCATGCT CGGGAGCGTG GTTGAGCGGC TGGCGCGGTT GTCCTGGAGC    60
AGGGGCGCAG GAATTCTGAT GTGAAACTAA CAGTCTGTGA GCCCTGGAAC CTCCACTCAG   120
AGAAGATGAA GGATATCGAC ATAGGAAAAG AGTATATCAT CCCCAGTCCT GGGTATAGAA   180
GTGTGAGGGA GAGAACCAGC ACTTCTGGGA CGCACAGAGA CCGTGAAGAT TCCAAGTTCA   240
GGAGAACTCG ACCGTTGGAA TGCCAAGATG CCTTGGAAAC AGCAGCCCGA GCCGAGGGCC   300
TCTCTCTTGA TGCCTCCATG CATTCTCAGC TCAGAATCCT GGATGAGGAG CATCCCAAGG   360
GAAAGTACCA TCATGGCTTG AGTGCTCTGA AGCCCATCCG GACTACTTCC AAACACCAGC   420
ACCCAGTGGA CAATGCTGGG CTTTTTTCCT GTATGACTTT TTCGTGGCTT TCTTCTCTGG   480
CCCGTGTGGC CCACAAGAAG GGGGAGCTCT CAATGGAAGA CGTGTGGTCT CTGTCCAAGC   540
ACGAGTCTTC TGACGTGAAC TGCAGAAGAC TAGAGAGACT GTGGCAAGAA GAGCTGAATG   600
AAGTTGGGCC AGACGCTGCT TCCCTGCGAA GGGTTGTGTG GATCTTCTGC CGCACCAGGC   660
TCATCCTGTC CATCGTGTGC CTGATGATCA CGCAGCTGGC TGGCTTCAGT GGACCAAATT   720
TTCAGGATGG CTGTATTCTG CGGTCAGAAT GAGAGAGTCA AGCTGGGCAG AATCTCTCGC   780
CAAGAGTTCA GCCTTCCTTT GGAGACTGCT CCATCAGTGC CGAGGTGTGT GGGAACAGGC   840
TTCACTGCAC CGCCATCTTA CTGAGTTGCT TCACGTGAGG AAAAGGGGGC TTTGGCCCTG   900
TGACTCAGTT CCACATTTTG GATTGCATAC TGGAAAAGAA GCCAATCTTC TTGCTAGTAA   960
ACCAGCAACC CGGCTGTATA CAGTGGTGAC CCAAGCAATG GATATAAACC TAAAAATCTG  1020
AGGGAGGGGA GAGGTGGAAT ACAGTAGTTC TTGGAATCTG AAGTCTCCTA TTTGATCAGG  1080
TTATTTCCTG GGACTTGGCA AAAATCTGAT TGGTGGGGAT CTCCTAGGAC CTAGTGGACA  1140
TCTGGTATTA ATTTAATCTC AGGAAAAACA AGAAATTAAC CCAGAGAGAG TCTGGGTTTT  1200
GGAATTCAGC GTAGCTACCT CCAGACCGTG GTGTCTGGCC TCCATTTTTG TCTGTCATTC  1260
AGCTCTGACT TACAGCTGCA GTCACCTTTG CTATAAGGCA CCTGGGTAGA AGGGTGGATG  1320
GGCTTCACAT CAATTTTTTT CTTCCTTTAG GGTGGGGGAT TGGTTTGGCT TTCTTTTGTT  1380
GTGGTTTTTT GTTTTATTTT TGTCAAGATT GATTTTTAGA TGCAAGGACT TGAAAAGACC  1440
CAGAAGGATG CCACCAGTTT TTCCTTGAGG CCTAGGATTT TTTATTCTGT CCCGAGCAGA  1500
GGTAATTCCT CACAACTTAG TGCACCAGTA GCACCAGCCA TTTTGAGCAG AGTACCTCTT  1560
TGGGGAGCTT TTCGTTTTGT TTTGTTTTTA ATTCTCTTTC CTTAGCAGCA AGGTCTTTTT  1620
TCCTAGAGAA TCTACTCCGT TGCAGAATCA TTGCAACCTC AGGAGCCCTC ACTGATTGAG  1680
TGCTGTCAGC CTGATATACT ACTTTGGACT CTGGAAACAG ATATGGGTTC TATTCTCTAT  1740
TTCTACTGTG TGTCGTTAAA CAACCGTCGG AGACCAGATG ACCTGTTAGA TGGCTAGTCC  1800
TGTATAACTC GACTCTGTAT GTTTCAATGT ATGTTACTGC AATGCTTCAC CTGCTGTACA  1860
GTGTTTGTGA GATGCTCTTT GAAGATGGTA CTTTTATATT T
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Seq ID NO: 232 Protein sequence:
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
MKDIDIGKEY IIPSPGYRSV RERTSTSGTH RDREDSKFRR TRPLECQDAL ETAARAEGLS    60
LDASMHSQLR ILDEEHPKGK YHHGLSALKP IRTTSKHQHP VDNAGLFSCM TFSWLSSLAR   120
VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI   180
LSIVCLMITQ LAGFSGPNFQ DGCILRSE
```

Seq ID NO: 233 DNA sequence
Nucleic Acid Accession #: CAT cluster

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1           11          21          31          41          51
|           |           |           |           |           |
TTTTAATGGT GCTCATATAT ACTGTATTTT TTGTTGTTTA GTTTTACTTA TTGAGAGTGT    60
CACAACATGA ATCACATAAT CATGATTTTT TTTTTTTACT TTTACTCCCC AAATTATTCA   120
TGTTTCTTAG ATCGTAGTCA TTGAGAAGTC CCAATAACTC TAAACTTTTG AGTTATAACG   180
TAGTAAACTT CTCTTTCATC TTTGTGTTAG CTCTGTAGTC TTAACCTGGA TTTTAATTTT   240
TTTGTTTCCA AAGTCACAAT TGAATTATTC TTAGATACCT TAAGCCACTG AATTCAGTTC   300
TGTTTGACTG AAAGCAAAAC AACGTGACAG TTTATTTTCA AACACTAACT TCTTGATATT   360
TTGTTATGGT ATATCTTTTT ATTAAATATT TATTTTGACT AAGCTTTCAT AAAATATTTG   420
AAGCTATTTT AATCATCAAG TATGGAAAAC AAATTACTAT TGCATTTTCC TATATATGCA   480
TATATTATGG ATTAACCAGA ATTGTATCAT TTTTGGCCTA ATGTCTGGAT ATAAAAGATA   540
ATTAGCCTAC TATAGTATTA ATAAATTTTT CAGTTGGTTT GGGCAAATTT AAACCTGAAA   600
AATAGGTTAA AAAGTAGTTA CAAATTAAAC TTACTAATTT ATACCTGATT TTTTTCTTG    660
AATTAAAGTA CATTTTAAAT GAGCTTTATA ATACCTTAAA AAGTTGGTTC TAATTTAAAA   720
TATGAAAGCT CTGGCTATCA TCCTGGGATA GTAATTTCTA ATTATATAGT ATTTCAAAAC   780
TATATATTTT TTAGTTCCTT TGAGATAACT AATTTCTAAT TATATATGTT TCAAAAACCA   840
TATCCTGTAT TTTTTTTAAG AATTGTTTTA TAAATAGGTC ATAAGATACA AGGTCTGCAT   900
TAGAAGACCC ACTCTTACTA GGTTCCCTAA GGATCTGCCA TAGATTTTTT TTTTTTTTTT   960
TTTTTTTTAG GTAGTTTAAA GCAAGCACTG ATACCAGTGG GAGTTGGTCT TGATCTAGGA  1020
GATTCTGTTA AGCATCCAAA AACAATGCCT AATTTCAGTT CTTAGGTTAT GGCTTGTGAC  1080
TCCAGATAAA AGATGGAGAA TACCTCATGT ACTGTGACTT GAAAATGAAT TCTTAAAATT  1140
CTTAGGCTCT CTCCATGTAT CTTTCTTAAG GAAAAGTTTC TGAGTGTGAT CTCTCTTTTG  1200
CCATAGTATC AAGTGGAGGG TAGTTCAGAA AAGTTAATAG GAAATCTTTT GTGACAGCAG  1260
ACTATAATAG AAGTTTGAGT AATATTTTAA TAAATTTATA TAATTCAAAT GATAAAAATG  1320
TATCAATGTT ATCCAATGAT TTTTATTAAA AAATTACCTT ATTATTAGAA CTGTGCCTAT  1380
TACATAAAAA GTGCTCATGT ATTTGAATTT TAAATAATTT ATTTAAATCA AGACCACCAT  1440
AAGTCATTAA TAATTTAATA ATTGTTTTAA ATCAGTGGTT TTCAACCCTC ACTTCATATT  1500
AGAATCATCT GAGGACTTTT AATATGGAAT CCACCTCATA ACAATTAAGT CTAAATTTCT  1560
GGAAGATGGA GCCATGCTTG TTTTTCCAAA AGCTCTTTGA GTGATTCTAA TTTGTAGTCA  1620
GAGTTGAAGA CCACTGCTCT AAATTAGTGC AGGAAAATGC TTTTATTTCT CCCATGTTAA  1680
CTTTTAAAAC TAGTAATGTA CCCAGTTAAG TTTTGATGGT TTAAATTCCA CTAAAGAACA  1740
TATTCTTCTA ATAACTAGCA TTTATTACAT GAAATTTAAG AGTTTAAGTT CCATCAAACT  1800
AGCCCTTGTG TAAGATTATT ATTTCTTCTC TATAACTTCA AAATAGATAT TTCATTCAAA  1860
CTGTTCAGGT GAGAAAACAT AATGGATTTT TTTTTTTTTC CTCTGGAGCT GCCTGTTCAG  1920
TGAGATGGAG GAGGTGGGCA CATTTAAGGT CAGTTCACTA ACCTATGGTT CAGAGTTCTG  1980
ATCATATGGA AGTTTGGAAA AGAGAGCTTA TCACAGGTTT GTATGCTGGT GAATGGATAG  2040
TTTTAATTCT CACTGTCTCA AAAGAGAATC AGCTCTCCAG CAGTTCTAGA AAAGCTTTGA  2100
CAATCCCCAA GGGGCAGTGT TACCTTACTC CTTCACTGCT TCTTAGAAGG TAGAATTAAG  2160
TTTCTGGAAT TGCACCTACA TGTTTTCTTA TTAACATTCA GAATTGGGAA TATTAATTTT  2220
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TCCAGTGAGT AGTTTTCTGA AATTGGTAAC TTGGAGAGTA AAATAACGTA TTTTGCTTTT  2280
CAATTTTGTG TTTGTTTACT TTTATGTAAA AATTTGATAT GTGAATTACA CAGTTCTAAT  2340
AAAACCTCAT GCCTTTTCAT TACATCTAAT TTGAACTCTC AACTTCAGTG CCAGAAGTGC  2400
TTTAAAGATG CTTTAATGAA AAGTATTAAG AAAATATATA GATTTGTATG TCAGTTTATA  2460
CTTCAGAAAT CCATATATTT GTCATATTTA TTTTTTTAGA AACCTCCTAA TTGGATAACT  2520
AGATGGTATT TAAAATGAAT GCCCAAAAAT ATCTTGTACC TTTGTCCAAA AGTTTATCTG  2580
TTGGAAGCCG CCAGCCATTC ATGTAGAGAG TTTATAAGAA AATAATTTAA AATTGTATGC  2640
ATTTTATATT ACTATGGTAT CTGTGTACCA TATTTCTAAG TATTCATTAT TAAATTGGTA  2700
CTTCTTAAAA CCATAACCTG GCTTGCCTTT TAGTGTTAAA CACAAAATCC AACATTGTAT  2760
ATAGAGATTC TTCTTTTATG AAGAAGAGCT GACGTAATTT ATTACCAGTG CATCTGCACA  2820
AAGACATTAA CATAAGTCTC TGAGCAGTGA TACATTTTCA AACATGAAGA GTGACAACCA  2880
CCACATTAAA CAACCACGGC AACACTCAGA CTTGGCACTT TCCTACGAAT CCATCCTATA  2940
TGTGCCTGGT ATCGCCTCTG GCATAACTTA CACGAATCGT CCTCCCTACT TGTCTACGCT  3000
CCTTCATCAA GCACTTGCCA ACACATTCAC CTCTAACTTG TACAACCTTA CCAACTCACC  3060
ACAACATCTG CAACTCTACC CTATCAACTG CCAACCTAAA GACCCCCAAC ACAACACAAC  3120
CCCCAAACAC AAAACCACTA AATCATAACC ACCACACACG CCACACACCA CACACCCACC  3180
CACACAACCA ACACACCACG ACCAAACACC CCACCACAAA CAAGCTAACA ACCACAAACA  3240
GACAACACAT CACATACACT CACTACCCCC CCATACTCCC ACCCACCA
```

Seq ID NO: 234 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 27-281

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1          11         21         31         41         51
|          |          |          |          |          |
AGCAGGAGGA GAGCTGGCGG GAAGACATGC ACCCCTTGAA GACCCAGAGA GAGGCCGTCT    60
GTCTACCGCG TAGCAGTTAC ATCAGACTGA GACACTTCCT GTTTACAGGA GACTATAAAA   120
TTCCTGCCCC GTGCTCATTT GGGGCTGACG CCATTTTAGG CCTCAGCCCA TCTGCACCCA   180
GGCGCTCACT GAAACAGTGT GTTGCTCCAC ACCGCCTTGT TTTGCTTGTT GGCGCGCTCT   240
CAGGGTTCCG ACCAATCCAA GAGCCTTGCA GAAAGCATTA ACGTGCTTTT CTCTTTGGCA   300
GAGTTTTTCT TTGCTCTGAT CTTGGAGACA TCCCTCTGCC TAGTGGAAAC ATAAGGAATA   360
CAGAAAGAAT GCAAGGAGAT AGACCAACGT GAGATTCTCC TTCATGCACT CAAGAGAAAG   420
ATGTTGCAGG AAGAGCTAGT CTTTCAGGCT GGGCTGGTGA CCTGAGAAAG AATGTCCAGC   480
TTTTCTTCTC CACTTGGCAT ATCAAGAGCC AGGCGTGGAA GACTAAAACA GGAAATGTTT   540
ATAAAAACTG TTCAGCGGTT CGCCAACAAG AAGTGGTAAA GTAGCAAAAA TGGGGATGGA   600
GATGCCAGGA GGAAAGATGC CAGGGGTAAA GTGGGAAAAT GGGAACCTGA AGCCAGGAGG   660
TCAAGCCAAG CCAACAGGTG TTCTGTTTTT CATCACAGAA CTAATAAGTG GTGCTGAGGA   720
CTCAAACCCG GGGAAGCCCA CTCTAGAACC CATGCTGGTC ATCCATATCC CCAAGGCCCT   780
GGTCAGAACA CAGCTAAGCA GATGGCTTGG GTCATCAGGA CGTCCATTAC ATCCAAAGGA   840
AGACAGCCTG TGACGTTTCA AAAGCAAAAG TCCCCTACCA GCCAGTGAAG CTACCTGATT   900
TCTCAGTATC TTACGCCCAG TGACACGATC TACCCTCAAA ACTTAAAAAA AAAAGGGAAA   960
CATAAACACA TAACAGCAGC AGCAATAATT AAAGATGAGA TGAGAACAAT TAAGAAAAAA  1020
GGAAAGGTCT CCTGTGACTG TTTTATTTTT AGGGAAACAG AGAGGAAGAA GAATGATTTT  1080
TCTTTTGATG ACTCTATATC CAACTCTGAG GTTTGATTAA AGAAATGACC TTGAACCACA  1140
GCAAAGAAAA ATAAAAGACA ATTTCCAGTA AGTATGCCAG TTCGAATTAA TGATTTACTT  1200
TTTATTTTTA AACTGAATTC AGCAGAGATT TACATGCATT ACGATGATTA ACATCTGAAA  1260
TTTGACCTTG AAATAATCTT TACATTGTAA ATTCTTAATG ATCAAAACAA GGTTCTCAGT  1320
GATTAAAACA TATTAGTAAT TAATTATTAA AGGAGAATAA TTGCAAATAC AACATTCCTA  1380
AAATCTCAAG GCTTTTAAAG CATTTGTACA AATGACTGGA CATTTTTTAA ATTTGAAAAA  1440
AAAAAAAAGC CCTCCATCTG ATTCTCATTT TCATTGTCAG TGCAACAACA AAAAAGGTAT  1500
GCACTTCTCT TCTCATTTTC CACTGTCTCG CAAGCTAGAA ATTCTCACGA CTACCTTTGA  1560
TCCCATCAAA GCCAAAGAAA GAAAAGAAAA TTGTTCTGTA CAGATATATG ACATTAAAAA  1620
ATAATCCC
```

Seq ID NO: 235 Protein sequence:
Protein Accession #: Eos sequence

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1          11         21         31         41         51
|          |          |          |          |          |
MHPLKTQREA VCLPRSSYIR LRHFLFTGDY KIPAPCSFGA DAILGLSPSA PRRSLKQCVA    60
PHRLVLLVGA LSGFRPIQEP CRKH
```

Seq ID NO: 236 DNA sequence
Nucleic Acid Accession #: NM_002075
Coding sequence: 406..1428

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1          11         21         31         41         51
|          |          |          |          |          |
CCACAATAGG GGCAGACCTG TCCATCCTTC TCTGTGGGTC CCCTGTACCT TTCTCCCCCA    60
ACAGGATCAG ACCCAGAGGC AGCTGGTTGG GGTTTGTCGA GAAGAAGGAT TATCCAGATC   120
AGTCCTTTCT AATCTCAGCT CCTGCCTGTA CCCTCCCATA CTCACCAAAC CCTCTTCCCC   180
ACCACCCTGA GCTGAGGAGC ACAGTTTGAG GCCCCCCCAA CCCCCCGCCG GTCGGGGCCA   240
GGCCAGGCCA GGCCAGCTCC TCTGGCAGCA GAGCCTGGGC AGGTGACGGG CGGGCGCGGG   300
CGTCGCAGCT GAGGGAGTAA GGAGGCTCCC AGGAACCGGA GCTGGAAACC CGGCCGAGGT   360
CCAGCCAGAG CCCAAGAGCC AGAGTGACCC CTCGACCTGT CAGCCATGGG GGAGATGGAG   420
CAACTGCGTC AGGAAGCGGA GCAGCTCAAG AAGCAGATTG CAGATGCCAG GAAAGCCTGT   480
GCTGACGTTA CTCTGGCAGA GCTGGTGTCT GGCCTAGAGG TGGTGGGACG AGTCCAGATG   540
CGGACGCGGC GGACGTTAAG GGGACACCTG GCCAAGATTT ACGCCATGCA CTGGGCCACT   600
GATTCTAAGC TGCTGGTAAG TGCCTCGCAA GATGGGAAGC TGATCGTGTG GGACAGCTAC   660
ACCACCAACA AGGTGCACGC CATCCCACTG CGCTCCTCCT GGGTCATGAC CTGTGCCTAT   720
GCCCCATCAG GGAACTTTGT GGCATGTGGG GGGCTGGACA ACATGTGTTC CATCTACAAC   780
CTCAAATCCC GTGAGGGCAA TGTCAAGGTC AGCCGGGAGC TTTCTGCTCA CACAGGTTAT   840
CTCTCCTGCT GCCGCTTCCT GGATGACAAC AATATTGTGA CCAGCTCGGG GGACACCACG   900
TGTGCCTTGT GGGACATTGA GACTGGGCAG CAGAAGACTG TATTTGTGGG ACACACGGGT   960
GACTGCATGA GCCTGGCTGT GTCTCCTGAC TTCAATCTCT TCATTTCGGG GGCCTGTGAT  1020
GCCAGTGCCA AGCTCTGGGA TGTGCGAGAG GGGACCTGCC GTCAGACTTT CACTGGCCAC  1080
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GAGTCGGACA TCAACGCCAT CTGTTTCTTC CCCAATGGAG AGGCCATCTG CACGGGCTCG  1140
GATGACGCTT CCTGCCGCTT GTTTGACCTG CGGGCAGACC AGGAGCTGAT CTGCTTCTCC  1200
CACGAGAGCA TCATCTGCGG CATCACGTCC GTGGCCTTCT CCCTCAGTGG CCGCCTACTA  1260
TTCGCTGGCT ACGACGACTT CAACTGCAAT GTCTGGGACT CCATGAAGTC TGAGCGTGTG  1320
GGCATCCTCT CTGGCCACGA TAACAGGGTG AGCTGCCTGG GAGTCACAGC TGACGGGATG  1380
GCTGTGGCCA CAGGTTCCTG GGACAGCTTC CTCAAAATCT GGAACTGAGG AGGCTGGAGA  1440
AAGGGAAGTG GAAGGCAGTG AACACACTCA GCAGCCCCCT GCCCGACCCC ATCTCATTCA  1500
GGTGTTCTCT TCTATATTCC GGGTGCCATT CCCACTAAGC TTTCTCCTTT GAGGGCAGTG  1560
GGGAGCATGG GACTGTGCCT TTGGGAGGCA GCATCAGGGA CACAGGGCA AAGAACTGCC  1620
CCATCTCCTC CCATGGCCTT CCCTCCCCAC AGTCCTCACA GCCTCTCCCT TAATGAGCAA  1680
GGACAACCTG CCCCTCCCCA GCCCTTTGCA GGCCCAGCAG ACTTGAGTCT GAGGCCCCAG  1740
GCCCTAGGAT TCCTCCCCCA GAGCCACTAC CTTTGTCCAG GCCTGGGTGG TATAGGGCGT  1800
TTGGCCCTGT GACTATGGCT CTGGCACCAC TAGGGTCCTG GCCCTCTTCT TATTCATGCT  1860
TTCTCCTTTT TCTACCTTTT TTTCTCTCCT AAGACACCTG CAATAAAGTG TAGCACCCTG  1920
GT
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Seq ID NO: 237 Protein sequence:
Protein Accession #: NP_002066

```
1           11          21          31          41          51
|           |           |           |           |           |
MGEMEQLRQE AEQLKKQIAD ARKACADVTL AELVSGLEVV GRVQMRTRRT LRGHLAKIYA    60
MHWATDSKLL VSASQDGKLI VWDSYTTNKV HAIPLRSSWV MTCAYAPSGN FVACGGLDNM   120
CSIYNLKSRE GNVKVSRELS AHTGYLSCCR FLDDNNIVTS SGDTTCALWD IETGQQKTVF   180
VGHTGDCMSL AVSPDFNLFI SGACDASAKL WDVREGTCRQ TFTGHESDIN AICFFPNGEA   240
ICTGSDDASC RLFDLRADQE LICFSHESII CGITSVAFSL SGRLLFAGYD DFNCNVWDSM   300
KSERVGILSG HDNRVSCLGV TADGMAVATG SWDSFLKIWN
```

Seq ID NO: 238 DNA sequence
Nucleic Acid Accession #: CAT cluster

```
1           11          21          31          41          51
|           |           |           |           |           |
TCCCAATGTG TNGAACCTAC CATAAATTCT TTTCTTACNG GACAATCTTA TNCTAANCAA     60
TACCATTTGC TTTTAAGGCA GATAATCCTC CAAGTTTTCT AATGATATCT GAAACTATTA    120
ACTGATTCTG TGAATTATGA AATCTGAAAA GGAATTGGAA GTTGCTAAAA ATCTATCATT    180
TGCATTGACC AGTGTGAAGC ACAGTGGAAT GAGAATGCGT GCCCTGACAC CAAAGAAAAA    240
TAAGTGACTG GAAAGCTGAA GAATCACCGG CTTCAGTGAC ATGGAACCCA GTGATTTGAT    300
TTTTGACGAG TATCGGGTGA CTTTGAGGTG GTCAAGAAAC CACACTTTAA GAACAATGTC    360
CAAAAAGGGG AAAAAAAAGA GCAACCAAAG AAAAAAAATC CATAAAATTG CACAGAAGAA    420
AAGAAAGAAA AATAAAATAC ACAATATGGA CGATGGAGAA AAACAGTTAC ATTTCTTTAT    480
GGATCAAGAA GTTTGTGTAC ACATAATCTC ATTTTGAGAT ATATAACTAT TTTTGTCTTT    540
CAGAAGTGAA TCAAAATATT TCAAAATGCT GTCTTATGAA ACTACAATAT TCTCACAGAT    600
TAGAAAAGTT TTTCTGTAAA AGTCAGATAG TAAATATTTT AGGTTTTGCA GTGTCTTTTG    660
CAACTACTCA ACTTTCCTAC TGTAGCACAA GAGTAGCTGT GGTACTGTGC AAATAAATTG    720
CTTGTGTTCC AATAAAGCTT CATTTACAAA AACATGCCAT GGGCCATATT TGGCCTGTAC    780
ACTGTTGTTT GCCAAGTCCT AATATAGTTG CTTAGCAAGT ATTGTGAGCT ATTTGAGGAA    840
GACATGAAAG TTCATTGGGT TGCTAAAAAG TATGTAGAAA TTCAAAGGAA AATTAAAATT    900
TAGGCTAAGT TATAATACAC TGTTTTAACA ATTGTAAAAT GTAAGAGAAA TTTACAAATA    960
AAAATCCCAA ATAAAA
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Seq ID NO: 239 DNA sequence
Nucleic Acid Accession #: NM_001786.1
Coding sequence: 130-1023

```
1           11          21          31          41          51
|           |           |           |           |           |
GGGGGGGGGG GGCACTTGGC TTCAAAGCTG GCTCTTGGAA ATTGAGCGGA GAGCGACGCG     60
GTTGTTGTAG CTGCCGCTGC GGCCGCCGCG GAATAATAAG CCGGGATCTA CCATACCCAT    120
TGACTAACTA TGGAAGATTA TACCAAAATA GAGAAAATTG GAGAAGGTAC CTATGGAGTT    180
GTGTATAAGG GTAGACACAA AACTACAGGT CAAGTGGTAG CCATGAAAAA AATCAGACTA    240
GAAAGTGAAG AGGAAGGGGT TCCTAGTACT GCAATTCGGG AAATTTCTCT ATTAAAGGAA    300
CTTCGTCATC CAAATATAGT CAGTCTTCAG GATGTGCTTA TGCAGGATTC CAGGTTATAT    360
CTCATCTTTG AGTTTCTTTC CATGGATCTG AAGAAATACT TGGATTCTAT CCCTCCTGGT    420
CAGTACATGG ATTCTTCACT TGTTAAGAGT TATTTATACC AAATCCTACA GGGGATTGTG    480
TTTTGTCACT CTAGAAGAGT TCTTCACAGA GACTTAAAAC CTCAAAATCT CTTGATTGAT    540
GACAAAGGAA CAATTAAACT GGCTGATTTT GGCCTTGCCA GAGCTTTTGG AATACCTATC    600
AGAGTATATA CACATGAGGT AGTAACACTC TGGTACAGAT CTCCAGAAGT ATTGCTGGGG    660
TCAGCTCGTT ACTCAACTCC AGTTGACATT TGGAGTATAG GCACCATATT TGCTGAACTA    720
GCAACTAAGA AACCACTTTT CCATGGGGAT TCAGAAATTG ATCAACTCTT CAGGATTTTC    780
AGAGCTTTGG GCACTCCCAA TAATGAAGTG TGGCCAGAAG TGGAATCTTT ACAGGACTAT    840
AAGAATACAT TTCCCAAATG GAAACCAGGA AGCCTAGCAT CCCATGTCAA AAACTTGGAT    900
GAAAATGGCT TGGATTTGCT CTCGAAAATG TTAATCTATG ATCCAGCCAA ACGAATTTCT    960
GGCAAAATGG CACTGAATCA TCCATATTTT AATGATTTGG ACAATCAGAT TAAGAAGATG   1020
TAGCTTTCTG ACAAAAAGTT TCCATATGTT ATGTCAACAG ATAGTTGTGT TTTTATTGTT   1080
AACTCTTGTC TATTTTTGTC TTATATATAT TTCTTTGTTA TCAAACTTCA GCTGTACTTC   1140
GTCTTCTAAT TTCAAAAATA TAACTTAAAA ATGTAAATAT TCTATATGAA TTTAAATATA   1200
ATTCTGTAAA TGTGAAAAAA AAAAAAAAAA AAAAA
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Seq ID NO: 240 Protein sequence:
Protein Accession #: NP_001777.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH     60
PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKSYLY QILQGIVFCH    120
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```
SRRVLHRDLK PQNLLIDDKG TIKLADFGLA RAFGIPIRVY THEVVTLWYR SPEVLLGSAR   180
YSTPVDIWSI GTIFAELATK KPLFHGDSEI DQLFRIFRAL GTPNNEVWPE VESLQDYKNT   240
FPKWKPGSLA SHVKNLDENG LDLLSKMLIY DPAKRISGKM ALNHPYFNDL DNQIKKM
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Seq ID NO: 241 DNA sequence
Nucleic Acid Accession #: NM_033379.1
Coding sequence: 132-854

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1          11         21         31         41         51
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CGCCCGCGCG CGGGCTCAAC TTTGTAGAGC GAGGGGCCAA CTTGGCAGAG CGCGCGGCCA    60
GCTTTGCAGA GAGCGCCCTC CAGGGACTAT GCGTGCGGGG ACACGGGATC TACCCATACC   120
ATTGACTAAC TATGGAAGAT TATACCAAAA TAGAGAAAAT TGGAGAAGGT ACCTATGGAG   180
TTGTGTATAA GGGTAGACAC AAAACTACAG GTCAAGTGGT AGCCATGAAA AAAATCAGAC   240
TAGAAAGTGA AGAGGAAGGG GTTCCTAGTA CTGCAATTCG GGAAATTTCT CTATTAAAGG   300
AACTTCGTCA TCCAAATATA GTCAGTCTTC AGGATGTGCT TATGCAGGAT TCCAGGTTAT   360
ATCTCATCTT TGAGTTTCTT TCCATGGATC TGAAGAAATA CTTGGATTCT ATCCCTCCTG   420
GTCAGTACAT GGATTCTTCA CTTGTTAAGG TAGTAACACT CTGGTACAGA TCTCCAGAAG   480
TATTGCTGGG GTCAGCTCGT TACTCAACTC CAGTTGACAT TTGGAGTATA GGCACCATAT   540
TTGCTGAACT AGCAACTAAG AAACCACTTT TCCATGGGGA TTCAGAAATT GATCAACTCT   600
TCAGGATTTT CAGAGCTTTG GGCACTCCCA ATAATGAAGT GTGGCCAGAA GTGGAATCTT   660
TACAGGACTA TAAGAATACA TTTCCCAAAT GGAAACCAGG AAGCCTAGCA TCCCATGTCA   720
AAAACTTGGA TGAAAATGGC TTGGATTTGC TCTCGAAAAT GTTAATCTAT GATCCAGCCA   780
AACGAATTTC TGGCAAAATG GCACTGAATC ATCCATATTT TAATGATTTG GACAATCAGA   840
TTAAGAAGAT GTAGCTTTCT GACAAAAAGT TTCCATATGT TATGTCAACA GATAGTTGTG   900
TTTTTATTGT TAACTCTTGT CTATTTTTGT CTTATATATA TTTCTTTGTT ATCAAACTTC   960
AGCTGTACTT CGTCTTCTAA TTTCAAAAAT ATAACTTAAA AATGTAAATA TTCTATATGA  1020
ATTTAAATAT AATTCTGTAA ATGTGAAAAA AAAAAAAAAA AAAAA
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Seq ID NO: 242 Protein sequence:
Protein Accession #: NP_203698.1

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1          11         21         31         41         51
|          |          |          |          |          |
MEDYTKIEKI GEGTYGVVYK GRHKTTGQVV AMKKIRLESE EEGVPSTAIR EISLLKELRH    60
PNIVSLQDVL MQDSRLYLIF EFLSMDLKKY LDSIPPGQYM DSSLVKVVTL WYRSPEVLLG   120
SARYSTPVDI WSIGTIFAEL ATKKPLFHGD SEIDQLFRIF RALGTPNNEV WPEVESLQDY   180
KNTFPKWKPG SLASHVKNLD ENGLDLLSKM LIYDPAKRIS GKMALNHPYF NDLDNQIKKM
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Seq ID NO: 243 DNA sequence
Nucleic Acid Accession #: AF101051.1
Coding sequence: 221-856

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1          11         21         31         41         51
|          |          |          |          |          |
GAGCAACCTC AGCTTCTAGT ATCCAGACTC CAGCGCCGCC CCGGGCGCGG ACCCCAACCC    60
CGACCCAGAG CTTCTCCAGC GGCGGCGCAG CGAGCAGGGC TCCCCGCCTT AACTTCCTCC   120
GCGGGGCCCA GCCACCTTCG GGAGTCCGGG TTGCCCACCT GCAAACTCTC CGCCTTCTGC   180
ACCTGCCACC CCTGAGCCAG CGCGGGCGCC CGAGCGAGTC ATGGCCAACG CGGGGCTGCA   240
GCTGTTGGGC TTCATTCTCG CCTTCCTGGG ATGGATCGGC GCCATCGTCA GCACTGCCCT   300
GCCCCAGTGG AGGATTTACT CCTATGCCGG CGACAACATC GTGACCGCCC AGGCCATGTA   360
CGAGGGGCTG TGGATGTCCT GCGTGTCGCA GAGCACCGGG CAGATCCAGT GCAAAGTCTT   420
TGACTCCTTG CTGAATCTGA GCAGCACATT GCAAGCAACC CGTGCCTTGA TGGTGGTTGG   480
CATCCTCCTG GGAGTGATAG CAATCTTTGT GGCCACCGTT GGCATGAAGT GTATGAAGTG   540
CTTGGAAGAC GATGAGGTGC AGAAGATGAG GATGGCTGTC ATTGGGGGTG CGATATTTCT   600
TCTTGCAGGT CTGGCTATTT TAGTTGCCAC AGCATGGTAT GGCAATAGAA TCGTTCAAGA   660
ATTCTATGAC CCTATGACCC CAGTCAATGC CAGGTACGAA TTTGGTCAGG CTCTCTTCAC   720
TGGCTGGGCT GCTGCTTCTC TCTGCCTTCT GGGAGGTGCC CTACTTTGCT GTTCCTGTCC   780
CCGAAAAACA ACCTCTTACC CAACACCAAG GCCCTATCCA AAACCTGCAC CTTCCAGCGG   840
GAAAGACTAC GTGTGACACA GAGGCAAAAG GAGAAAATCA TGTTGAAACA AACCGAAAAT   900
GGACATTGAG ATACTATCAT TAACATTAGG ACCTTAGAAT TTTGGGTATT GTAATCTGAA   960
GTATGGTATT ACAAAACAAA CAAACAAACA AAAAACCCAT GTGTTAAAAT ACTCAGTGCT  1020
AAACATGGCT TAATCTTATT TTATCTTCTT TCCTCAATAT AGGAGGGAAG ATTTTACCAT  1080
TTGTATTACT GCTTCCCATT GAGTAATCAT ACTCAAATGG GGGAAGGGGT GCTCCTTAAA  1140
TATATATAGA TATGTATATA TACATGTTTT TCTATTAAAA ATAGACAGTA AAATACTATT  1200
CTCATTATGT TGATACTAGC ATACTTAAAA TATCTCTAAA ATAGGTAAAT GTATTTAATT  1260
CCATATTGAT GAAGATGTTT ATTGGTATAT TTTCTTTTTC GTCCTTATAT ACATATGTAA  1320
CAGTCAAATA TCATTTACTC TTCTTCATTA GCTTTGGGTG CCTTTGCCAC AAGACCTAGC  1380
CTAATTTACC AAGGATGAAT TCTTTCAATT CTTCATGCGT GCCCTTTTCA TATACTTATT  1440
TTATTTTTTA CCATAATCTT ATAGCACTTG CATCGTTATT AAGCCCTTAT TTGTTTTGTG  1500
TTTCATTGGT CTCTATCTCC TGAATCTAAC ACATTTCATA GCCTACATTT TAGTTTCTAA  1560
AGCCAAGAAG AATTTATTAC AAATCAGAAC TTTGGAGGCA AATCTTTCTG CATGACCAAA  1620
GTGATAAATT CCTGTTGACC TTCCCACACA ATCCCTGTAC TCTGACCCAT AGCACTCTTG  1680
TTTGCTTTGA AAATATTTGT CCAATTGAGT AGCTGCATGC TGTTCCCCCA GGTGTTGTAA  1740
CACAACTTTA TTGATTGAAT TTTTAAGCTA CTTATTCATA GTTTTATATC CCCCTAAACT  1800
ACCTTTTTGT TCCCCATTCC TTAATTGTAT TGTTTTCCCA AGTGTAATTA TCATGCGTTT  1860
TATATCTTCC TAATAAGGTG TGGTCTGTTT GTCTGAACAA AGTGCTAGAC TTTCTGGAGT  1920
GATAATCTGG TGACAAATAT TCTCTCTGTA GCTGTAAGCA AGTCACTTAA TCTTTCTACC  1980
TCTTTTTTCT ATCTGCCAAA TTGAGATAAT GATACTTAAC CAGTTAGAAG AGGTAGTGTG  2040
AATATTAATT AGTTTATATT ACTCTCATTC TTTGAACATG AACTATGCCT ATGTAGTGTC  2100
TTTATTTGCT CAGCTGGCTG AGACACTGAA GAAGTCACTG AACAAAACCT ACACACGTAC  2160
CTTCATGTGA TTCACTGCCT TCCTCTCTCT ACCAGTCTAT TTCCACTGAA CAAAACCTAC  2220
ACACATACCT TCATGTGGTT CAGTGCCTTC CTCTCTCTAC CAGTCTATTT CCACTGAACA  2280
AAACCTACGC ACATACCTTC ATGTGGCTCA GTGCCTTCCT CTCTCTACCA GTCTATTTCC  2340
ATTCTTTCAG CTGTGTCTGA CATGTTTGTG CTCTGTTCCA TTTTAACAAC TGCTCTTACT  2400
TTTCCAGTCT GTACAGAATG CTATTTCACT TGAGCAAGAT GATGTATGGA AAGGGTGTTG  2460
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GCACTGGTGT CTGGAGACCT GGATTTGAGT CTTGGTGCTA TCAATCACCG TCTGTGTTTG  2520
AGCAAGGCAT TTGGCTGCTG TAAGCTTATT GCTTCATCTG TAAGCGGTGG TTTGTAATTC  2580
CTGATCTTCC CACCTCACAG TGATGTTGTG GGGATCCAGT GAGATAGAAT ACATGTAAGT  2640
GTGGTTTTGT AATTTGAAAA GTGCTATACT AAGGGAAAGA ATTGAGGAAT TAACTGCATA  2700
CGTTTTGGTG TTGCTTTTCA AATGTTTGAA AATAAAAAAA TGTTAAGAAA TGGGTTTCTT  2760
GCCTTAACCA GTCTCTCAAG TGATGAGACA GTGAAGTAAA ATTGAGTGCA CTAAACGAAT  2820
AAGATTCTGA GGAAGTCTTA TCTTCTGCAG TGAGTATGGC CCAATGCTTT CTGTGGCTAA  2880
ACAGATGTAA TGGGAAGAAA TAAAAGCCTA CGTGTTGGTA AATCCAACAG CAAGGGAGAT  2940
TTTTGAATCA TAATAACTCA TAAGGTGCTA TCTGTTCAGT GATGCCCTCA GAGCTCTTGC  3000
TGTTAGCTGG CAGCTGACGC TGCTAGGATA GTTAGTTTGG AAATGGTACT TCATAATAAA  3060
CTACACAAGG AAAGTCAGCC ACCGTGTCTT ATGAGGAATT GGACCTAATA AATTTTAGTG  3120
TGCCTTCCAA ACCTGAGAAT ATATGCTTTT GGAAGTTAAA ATTTAAATGG CTTTTGCCAC  3180
ATACATAGAT CTTCATGATG TGTGAGTGTA ATTCCATGTG GATATCAGTT ACCAAACATT  3240
ACAAAAAAAT TTTATGGCCC AAAATGACCA ACGAAATTGT TACAATAGAA TTTATCCAAT  3300
TTTGATCTTT TTATATTCTT CTACCACACC TGGAAACAGA CCAATAGACA TTTTGGGGTT  3360
TTATAATGGG AATTTGTATA AAGCATTACT CTTTTTCAAT AAATTGTTTT TTAATTTAAA  3420
AAAAGGAAAA AAAAAAAAAA AAA
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Seq ID NO: 244 Protein sequence:
Protein Accession #: AAD16433.1

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1           11          21          31          41          51
|           |           |           |           |           |
MANAGLQLLG FILAFLGWIG AIVSTALPQW RIYSYAGDNI VTAQAMYEGL WMSCVSQSTG    60
QIQCKVFDSL LNLSSTLQAT RALMVVGILL GVIAIFVATV GMKCMKCLED DEVQKMRMAV   120
IGGAIFLLAG LAILVATAWY GNRIVQEFYD PMTPVNARYE FGQALFTGWA AASLCLLGGA   180
LLCCSCPRKT TSYPTPRPYP KPAPSSGKDY V
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Seq ID NO: 245 DNA sequence
Nucleic Acid Accession #: CAT cluster

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1           11          21          31          41          51
|           |           |           |           |           |
TTTTTTTTTT TTTTTTTTT TTTTTCAAGG AGAGCACAAG GAACTTTATT AATGACTTTC    60
TTAATGGTTA AATGCTGTTT ACCAAGTGAC CCAGAGGCAG CGTGGTTTAG TGGTTTCAAC   120
AGCATGGTCC CGAGAGTCTG ACAAACCTCA GTTCAAATCC TTCTTTTGTC TTCACTTAGT   180
TTTTCTTCCT GAGATTTAGT TTCTTCATCG TTAACAATGA GGATATTAAT ATGTTTCACA   240
CAGTTGTTAT GAAGAATGCA TATATTAGAA TGCCTGTAGT CTCAGCTACT CAGGAGGCTA   300
AGGTGGGGAG GTCGCTCAAG CCCAGGAATT CAAAGCTGCA ATGCATTATG ATTACAGCTG   360
TTAATAGCCA CTGCACTTCA GCCTGGGCAA TGTAGTAAGA TCCCATCTCT GGCTCGGAGG   420
GTCCTACGCC CACGGAGTCT CGCTGATTGC TAGCACAGCA GTCTGAGATC AAACTGCA
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Seq ID NO: 246 DNA sequence
Nucleic Acid Accession #: XM_058553.2
Coding sequence: 897-1400

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1           11          21          31          41          51
|           |           |           |           |           |
AATTTTCAGA AGTTTCGTAT GGGGATGGTT TTATATAAAT TCAGGTTTTT CCCACAATAA    60
TAAATGTATT TAGTCTCAGT GCTCAATAGA AGAGATTTCT AATAGAAAAG GATTCAAACT   120
GTGAAACCAT TTCTCTTTTA ATGTTTCACA TTCCTGTTAC AGATTTGTTC TCTTGTGACT   180
CTGTTATCCA TAATATGGAC AGTTCTTGAG TCCTAACATT GAGAGGTTTT CCCTTAGTGC   240
ATAGAGGGAA TGAGTATTAA TTGGAGAAGC TTAAAGTATT GCCACTTTAG CACTGAAGAT   300
TGGGATGAGA GGAGGTGAAA CCTCACTAGA AAAAGGGACA ATGTTAGTGT GGCCCTTCCT   360
GATCATGTTT AAGAAAAGTC ATGAAAATGG TGAACTAGTG TTTCCAAGCA TATTGGAAGG   420
GTTGAGTGTA TACTGTCTGT CAAAGACTTC CAGCATTTCC AGGTCCTAGA GAGGAACAAG   480
ACTGGTAACC TGCCTATCTG TATTTTTAAG AACCCAGGAG GAAAGCTTTA TAATAGAACA   540
TTATTTCTGT GTTTATGTAT AAGGGGTTTT TTGTTTTTTT AAAGACAGGA TCTCACTCCA   600
TTGTCCAGGC CAAGTGCAAT GGCACGAACC TCATAGCTCC TGGACTTAAG TGATCTGCCT   660
GCCTTTGCCT CCTGAGTAGC TGGGACTACA GGCATGAGCC CCCATGCCTG GCTAAGTTTG   720
TTTTTTTGTT TGTTTGTTTG TTTGTTTTTG GGGGGGGTTG TTTTGTTTTT TGTAGAGACG   780
TAGTCTTGCT TTGTTGCCAG GCTAGTCTCA AACTCCTGGC TTCAAGTGAT CCTCCTGCCT   840
CAGCCTCCCA GAGTGCTAGG ATTACAGCAC TTGGATTCAG CTTCTTCATT TCCAACATGG   900
AAGAAACTTA CACCGACTCC CTGGACCCTG AGAAGCTATT GCAATGCCCC TATGACAAAA   960
ACCATCAAAT CAGGGCTTGC AGGTTTCCTT ATCATCTTAT CAAGTGCAGA AAGAATCATC  1020
CTGATGTTGC AAGCAAATTG GCTACTTGTC CCTTCAATGC TCGCCACCAG GTTCCTCGAG  1080
CTGAAATTAG TCATCATATC TCAAGCTGTG ATGACAGAAG TTGTATTGAG CAAGATGTTG  1140
TCAACCAAAC CAGGAGCCTT AGACAAGAGA CTCTGGCTGA GAGCACTTGG CAGTGCCCTC  1200
CTTGCGATGA AGACTGGGAT AAAGATTTGT GGGAGCAGAC CAGCACCCCA TTTGTCTGGG  1260
GCACAACTCA CTACTCTGAC AACAACAGCC CTGCGAGCAA CATAGTTACA GAACATAAGA  1320
ATAACCTGGC TTCAGGCATG CGAGTTCCCA AATCTCTGCC GTATGTTCTG CCATGGAAAA  1380
ACAATGGAAA TGCACAGTAA CTGAATACCT ATCTCATCAA ATGCCAGACC CTAGAAGACT  1440
GTTGCTTCTT CTTCTACCAG TGGGTTCTCA TTTTCCTCCT AATCTAATTA TAGAATGGTA  1500
AACTCCCTGT GACTTTCCAA ACTGACAAGC ACACTTTTTT CCTCCCCCCT TGAATCCTCA  1560
TTTAATGCAA GAACCCTCAT ACTCAGAAGC TTCCAAATAA ACCTTTGATA CAGATTG
```

Seq ID NO: 247 Protein sequence:
Protein Accession #: XP_058553.1

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1           11          21          31          41          51
|           |           |           |           |           |
MEETYTDSLD PEKLLQCPYD KNHQIRACRF PYHLIKCRKN HPDVASKLAT CPFNARHQVP    60
RAEISHHISS CDDRSCIEQD VVNQTRSLRQ ETLAESTWQC PPCDEDWDKD LWEQTSTPFV   120
WGTTHYSDNN SPASNIVTEH KNNLASGMRV PKSLPYVLPW KNNGNAQ
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Seq ID NO: 248 DNA sequence
Nucleic Acid Accession #: NM_003392
Coding sequence: 758..1855

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1           11          21          31          41          51
|           |           |           |           |           |
TTAAGGAAAT CCGGGCTGCT CTTCCCCATC TGGAAGTGGC TTTCCCCACA TCGGCTCGTA    60
AACTGATTAT GAAACATACG ATGTTAATTC GGAGCTGCAT TTCCCAGCTG GGCACTCTCG   120
CGCGCTGGTC CCCGGGGCCT CGCCCCCCAC CCCCTGCCCT TCCCTCCCGC GTCCTGCCCC   180
CATCCTCCAC CCCCCGCGCT GGCCACCCCG CCTCCTTGGC AGCCTCTGGC GGCAGCGCGC   240
TCCACTCGCC TCCCGTGCTC CTCTCGCCCA TGGAATTAAT TCTGGCTCCA CTTGTTGCTC   300
GGCCCAGGTT GGGGAGAGGA CGGAGGGTGG CCGCAGCGGG TTCCTGAGTG AATTACCCAG   360
GAGGGACTGA GCACAGCACC AACTAGAGAG GGGTCAGGGG GTGCGGGACT CGAGCGAGCA   420
GGAAGGAGGC AGCGCCTGGC ACCAGGGCTT TGACTCAACA GAATTGAGAC ACGTTTGTAA   480
TCGCTGGCGT GCCCCGCGCA CAGGATCCCA GCGAAAATCA GATTTCCTGG TGAGGTTGCG   540
TGGGTGGATT AATTTGGAAA AAGAAACTGC CTATATCTTG CCATCAAAAA ACTCACGGAG   600
GAGAAGCGCA GTCAATCAAC AGTAAACTTA AGAGACCCCC GATGCTCCCC TGGTTTAACT   660
TGTATGCTTG AAAATTATCT GAGAGGGAAT AAACATCTTT TCCTTCTTCC CTCTCCAGAA   720
GTCCATTGGA ATATTAAGCC CAGGAGTTGC TTTGGGGATG GCTGGAAGTG CAATGTCTTC   780
CAAGTTCTTC CTAGTGGCTT TGGCCATATT TTTCTCCTTC GCCCAGGTTG TAATTGAAGC   840
CAATTCTTGG TGGTCGCTAG GTATGAATAA CCCTGTTCAG ATGTCAGAAG TATATATTAT   900
AGGAGCACAG CCTCTCTGCA GCCAACTGGC AGGACTTTCT CAAGGACAGA AGAAACTGTG   960
CCACTTGTAT CAGGACCACA TGCAGTACAT CGGAGAAGGC GCGAAGACAG GCATCAAAGA  1020
ATGCCAGTAT CAATTCCGAC ATCGACGGTG GAACTGCAGC ACTGTGGATA ACACCTCTGT  1080
TTTTGGCAGG GTGATGCAGA TAGGCAGCCG CGAGACGGCC TTCACATACG CCGTGAGCGC  1140
AGCAGGGGTG GTGAACGCCA TGAGCCGGGC GTGCCGCGAG GGCGAGCTGT CCACCTGCGG  1200
CTGCAGCCGC GCCGCGCGCC CCAAGGACCT GCCGCGGGAC TGGCTCTGGG GCGGCTGCGG  1260
CGACAACATC GACTATGGCT ACCGCTTTGC CAAGGAGTTC GTGGACGCCC GCGAGCGGGA  1320
GCGCATCCAC GCCAAGGGCT CCTACGAGAG TGCTCGCATC CTCATGAACC TGCACAACAA  1380
CGAGGCCGGC CGCAGGACGG TGTACAACCT GGCTGATGTG GCCTGCAAGT GCCATGGGGT  1440
GTCCGGCTCA TGTAGCCTGA AGACATGCTG GCTGCAGCTG GCAGACTTCC GCAAGGTGGG  1500
TGATGCCCTG AAGGAGAAGT ACGACAGCGC GGCGGCCATG CGGCTCAACA GCCGGGGCAA  1560
GTTGGTACAG GTCAACAGCC GCTTCAACTC GCCCACCACA CAAGACCTGG TCTACATCGA  1620
CCCCAGCCCT GACTACTGCG TGCGCAATGA GAGCACCGGC TCGCTGGGCA CGCAGGGCCG  1680
CCTGTGCAAC AAGACGTCGG AGGGCATGGA TGGCTGCGAG CTCATGTGCT GCGGCCGTGG  1740
GTACGACCAG TTCAAGACCG TGCAGACGGA GCGCTGCCAC TGCAAGTTCC ACTGGTGCTG  1800
CTACGTCAAG TGCAAGAAGT GCACGGAGAT CGTGGACCAG TTTGTGTGCA AGTAGTGGGT  1860
GCCACCCAGC ACTCAGCCCC GCTCCCAGGA CCCGCTTATT TATAGAAAGT ACAGTGATTC  1920
TGGTTTTTGG TTTTTAGAAA TATTTTTTAT TTTTCCCCAA GAATTGCAAC CGGAACCATT  1980
TTTTTTCCTG TTACCATCTA AGAACTCTGT GGTTTATTAT TAATATTATA ATTATTATTT  2040
GGCAATAATG GGGGTGGGAA CCACGAAAAA TATTTATTTT GTGGATCTTT GAAAAGGTAA  2100
TACAAGACTT CTTTTGGATA GTATAGAATG AAGGGGGAAA TAACACATAC CCTAACTTAG  2160
CTGTGTGGGA CATGGTACAC ATCCAGAAGG TAAAGAAATA CATTTTCTTT TTCTCAAATA  2220
TGCCATCATA TGGGATGGGT AGGTTCCAGT TGAAAGAGGG TGGTAGAAAT CTATTCACAA  2280
TTCAGCTTCT ATGACCAAAA TGAGTTGTAA ATTCTCTGGT GCAAGATAAA AGGTCTTGGG  2340
AAAACAAAAC AAAACAAAAC AAACCTCCCT TCCCCAGCAG GGCTGCTAGC TTGCTTTCTG  2400
CATTTTCAAA ATGATAATTT ACAATGGAAG GACAAGAATG TCATATTCTC AAGGAAAAAA  2460
GGTATATCAC ATGTCTCATT CTCCTCAAAT ATTCCATTTG CAGACAGACC GTCATATTCT  2520
AATAGCTCAT GAAATTTGGG CAGCAGGGAG GAAAGTCCCC AGAAATTAAA AAATTTAAAA  2580
CTCTTATGTC AAGATGTTGA TTTGAAGCTG TTATAAGAAT TGGGATTCCA GATTTGTAAA  2640
AAGACCCCCA ATGATTCTGG ACACTAGATT TTTTGTTTGG GGAGGTTGGC TTGAACATAA  2700
ATGAAATATC CTGTATTTTC TTAGGGATAC TTGGTTAGTA AATTATAATA GTAGAAATAA  2760
TACATGAATC CCATTCACAG GTTTCTCAGC CCAAGCAACA AGGTAATTGC GTGCCATTCA  2820
GCACTGCACC AGAGCAGACA ACCTATTTGA GGAAAAACAG TGAAATCCAC CTTCCTCTTC  2880
ACACTGAGCC CTCTCTGATT CCTCCGTGTT GTGATGTGAT GCTGGCCACG TTTCCAAACG  2940
GCAGCTCCAC TGGGTCCCCT TTGGTTGTAG GACAGGAAAT GAAACATTAG GAGCTCTGCT  3000
TGGAAAACAG TTCACTACTT AGGGATTTTT GTTTCCTAAA ACTTTTATTT TGAGGAGCAG  3060
TAGTTTTCTA TGTTTTAATG ACAGAACTTG GCTAATGGAA TTCACAGAGG TGTTGCAGCG  3120
TATCACTGTT ATGATCCTGT GTTTAGATTA TCCACTCATG CTTCTCCTAT TGTACTGCAG  3180
GTGTACCTTA AAACTGTTCC CAGTGTACTT GAACAGTTGC ATTTATAAGG GGGGAAATGT  3240
GGTTTAATGG TGCCTGATAT CTCAAAGTCT TTTGTACATA ACATATATAT ATATATACAT  3300
ATATATAAAT ATAAATATAA ATATATCTCA TTGCAGCCAG TGATTTAGAT TTACAGCTTA  3360
CTCTGGGGTT ATCTCTCTGT CTAGAGCATT GTTGTCCTTC ACTGCAGTCC AGTTGGGATT  3420
ATTCCAAAAG TTTTTTGAGT CTTGAGCTTG GGCTGTGGCC CCGCTGTGAT CATACCCTGA  3480
GCACGACGAA GCAACCTCGT TTCTGAGGAA GAAGCTTGAG TTCTGACTCA CTGAAATGCG  3540
TGTTGGGTTG AAGATATCTT TTTTTCTTTT CTGCCTCACC CCTTTGTCTC CAACCTCCAT  3600
TTCTGTTCAC TTTGTGGAGA GGGCATTACT TGTTCGTTAT AGACATGGAC GTTAAGAGAT  3660
ATTCAAAACT CAGAAGCATC AGCAATGTTT CTCTTTTCTT AGTTCATTCT GCAGAATGGA  3720
AACCCATGCC TATTAGAAAT GACAGTACTT ATTAATTGAG TCCCTAAGGA ATATTCAGCC  3780
CACTACATAG ATAGCTTTTT TTTTTTTTTT TTTTTTTTAA TAAGGACACC TCTTTCCAAA  3840
CAGGCCATCA AATATGTTCT TATCTCAGAC TTACGTTGTT TTAAAAGTTT GGAAAGATAC  3900
ACATCTTTTC ATACCCCCCC TTAGGAGGTT GGGCTTTCAT ATCACCTCAG CCAACTGTGG  3960
CTCTTAATTT ATTGCATAAT GATATCCACA TCAGCCAACT GTGGCTCTTT AATTTATTGC  4020
ATAATGATAT TCACATCCCC TCAGTTGCAG TGAATTGTGA GCAAAAGATC TTGAAAGCAA  4080
AAAGCACTAA TTAGTTTAAA ATGTCACTTT TTTGGTTTTT ATTATACAAA AACCATGAAG  4140
TACTTTTTTT ATTTGCTAAA TCAGATTGTT CCTTTTTAGT GACTCATGTT TATGAAGAGA  4200
GTTGAGTTTA ACAATCCTAG CTTTTAAAAG AAACTATTTA ATGTAAAATA TTCTACATGT  4260
CATTCAGATA TTATGTATAT CTTCTAGCCT TTATTCTGTA CTTTTAATGT ACATATTTCT  4320
GTCTTGCGTG ATTTGTATAT TTCACTGGTT TAAAAAACAA ACATCGAAAG GCTTATTCCA  4380
AATGGAAGAT AGAATATAAA ATAAAACGTT ACTTGTAAAA AAAAAAAA
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Seq ID NO: 249 Protein sequence:
Protein Accession #: NP_003383

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1           11          21          31          41          51
|           |           |           |           |           |
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MAGSAMSSKF FLVALAIFFS FAQVVIEANS WWSLGMNNPV QMSEVYIIGA QPLCSQLAGL    60
SQGQKKLCHL YQDHMQYIGE GAKTGIKECQ YQFRHRRWNC STVDNTSVFG RVMQIGSRET   120
AFTYAVSAAG VVNAMSRACR EGELSTCGCS RAARPKDLPR DWLWGGCGDN IDYGYRFAKE   180
FVDARERERI HAKGSYESAR ILMNLHNNEA GRRTVYNLAD VACKCHGVSG SCSLKTCWLQ   240
LADFRKVGDA LKEKYDSAAA MRLNSRGKLV QVNSRFNSPT TQDLVYIDPS PDYCVRNEST   300
GSLGTQGRLC NKTSEGMDGC ELMCCGRGYD QFKTVQTERC HCKFHWCCYV KCKKCTEIVD   360
QFVCK
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Seq ID NO: 250 DNA sequence
Nucleic Acid Accession #: NM_014058
Coding sequence: 56..1324

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1          11         21         31         41         51
|          |          |          |          |          |
TGACTTGGAT GTAGACCTCG ACCTTCACAG GACTCTTCAT TGCTGGTTGG CAATGATGTA    60
TCGGCCAGAT GTGGTGAGGG CTAGGAAAAG AGTTTGTTGG GAACCCTGGG TTATCGGCCT   120
CGTCATCTTC ATATCCCTGA TTGTCCTGGC AGTGTGCATT GGACTCACTG TTCATTATGT   180
GAGATATAAT CAAAAGAAGA CCTACAATTA CTATAGCACA TTGTCATTTA CAACTGACAA   240
ACTATATGCT GAGTTTGGCA GAGAGGCTTC TAACAATTTT ACAGAAATGA GCCAGAGACT   300
TGAATCAATG GTGAAAAATG CATTTTATAA ATCTCCATTA AGGGAAGAAT TTGTCAAGTC   360
TCAGGTTATC AAGTTCAGTC AACAGAAGCA TGGAGTGTTG GCTCATATGC TGTTGATTTG   420
TAGATTTCAC TCTACTGAGG ATCCTGAAAC TGTAGATAAA ATTGTTCAAC TTGTTTTACA   480
TGAAAAGCTG CAAGATGCTG TAGGACCCCC TAAAGTAGAT CCTCACTCAG TTAAAATTAA   540
AAAAATCAAC AAGACAGAAA CAGACAGCTA TCTAAACCAT TGCTGCGGAA CACGAAGAAG   600
TAAAACTCTA GGTCAGAGTC TCAGGATCGT TGGTGGGACA GAAGTAGAAG AGGGTGAATG   660
GCCCTGGCAG GCTAGCCTGC AGTGGGATGG GAGTCATCGC TGTGGAGCAA CCTTAATTAA   720
TGCCACATGG CTTGTGAGTG CTGCTCACTG TTTTACAACA TATAAGAACC CTGCCAGATG   780
GACTGCTTCC TTTGGAGTAA CAATAAAACC TTCGAAAATG AAACGGGGTC TCCGGAGAAT   840
AATTGTCCAT GAAAAATACA AACACCCATC ACATGACTAT GATATTTCTC TTGCAGAGCT   900
TTCTAGCCCT GTTCCCTACA CAAATGCAGT ACATAGAGTT TGTCTCCCTG ATGCATCCTA   960
TGAGTTTCAA CCAGGTGATG TGATGTTTGT GACAGGATTT GGAGCACTGA AAAATGATGG  1020
TTACAGTCAA AATCATCTTC GACAAGCACA GGTGACTCTC ATAGACGCTA CAACTTGCAA  1080
TGAACCTCAA GCTTACAATG ACGCCATAAC TCCTAGAATG TTATGTGCTG GCTCCTTAGA  1140
AGGAAAAACA GATGCATGCC AGGGTGACTC TGGAGGACCA CTGGTTAGTT CAGATGCTAG  1200
AGATATCTGG TACCTTGCTG GAATAGTGAG CTGGGGAGAT GAATGTGCGA AACCCAACAA  1260
GCCTGGTGTT TATACTAGAG TTACGGCCTT GCGGGACTGG ATTACTTCAA AAACTGGTAT  1320
CTAAGAGAGA AAAGCCTCAT GGAACAGATA ACATTTTTTT TTGTTTTTTG GGTGTGGAGG  1380
CCATTTTTAG AGATACAGAA TTGGAGAAGA CTTGCAAAAC AGCTAGATTT GACTGATCTC  1440
AATAAACTGT TTGCTTGATG CAAAAAAAAA A
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Seq ID NO: 251 Protein sequence:
Protein Accession #: NP_054777

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1          11         21         31         41         51
|          |          |          |          |          |
MYRPDVVRAR KRVCWEPWVI GLVIFISLIV LAVCIGLTVH YVRYNQKKTY NYYSTLSFTT    60
DKLYAEFGRE ASNNFTEMSQ RLESMVKNAF YKSPLREEFV KSQVIKFSQQ KHGVLAHMLL   120
ICRFHSTEDP ETVDKIVQLV LHEKLQDAVG PPKVDPHSVK IKKINKTETD SYLNHCCGTR   180
RSKTLGQSLR IVGGTEVEEG EWPWQASLQW DGSHRCGATL INATWLVSAA HCFTTYKNPA   240
RWTASFGVTI KPSKMKRGLR RIIVHEKYKH PSHDYDISLA ELSSPVPYTN AVHRVCLPDA   300
SYEFQPGDVM FVTGFGALKN DGYSQNHLRQ AQVTLIDATT CNEPQAYNDA ITPRMLCAGS   360
LEGKTDACQG DSGGPLVSSD ARDIWYLAGI VSWGDECAKP NKPGVYTRVT ALRDWITSKT   420
GI
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Seq ID NO: 252 DNA sequence
Nucleic Acid Accession #: NM_003504.2
Coding sequence: 71-1771

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1          11         21         31         41         51
|          |          |          |          |          |
GGCACGAGGC CTCGTGCCGC CGGGCTCTTG GTACCTCAGC GCGAGCGCCA GGCGTCCGGC    60
CGCCGTGGCT ATGTTCGTGT CCGATTTCCG CAAAGAGTTC TACGAGGTGG TCCAGAGCCA   120
GAGGGTCCTT CTCTTCGTGG CCTCGGACGT GGATGCTCTG TGTGCGTGCA AGATCCTTCA   180
GGCCTTGTTC CAGTGTGACC ACGTGCAATA TACGCTGGTT CCAGTTTCTG GGTGGCAAGA   240
ACTTGAAACT GCATTTCTTG AGCATAAAGA ACAGTTTCAT TATTTATTC TCATAAACTG   300
TGGAGCTAAT GTAGACCTAT TGGATATTCT TCAACCTGAT GAAGACACTA TATTCTTTGT   360
GTGTGACACC CATAGGCCAG TCAATGTCGT CAATGTATAC AACGATACCC AGATCAAATT   420
ACTCATTAAA CAAGATGATG ACCTTGAAGT TCCCGCCTAT GAAGACATCT TCAGGGATGA   480
AGAGGAGGAT GAAGAGCATT CAGGAAATGA CAGTGATGGG TCAGAGCCTT CTGAGAAGCG   540
CACACGGTTA GAAGAGGAGA TAGTGGAGCA AACCATGCGG AGGAGGCAGC GGCGAGAGTG   600
GGAGGCCCGG AGAAGAGACA TCCTCTTTGA CTACGAGCAG TATGAATATC ATGGGACATC   660
GTCAGCCATG GTGATGTTTG AGCTGGCTTG GATGCTGTCC AAGGACCTGA ATGACATGCT   720
GTGGTGGGCC ATCGTTGGAC TAACAGACCA GTGGGTGCAA GACAAGATCA CTCAAATGAA   780
ATACGTGACT GATGTTGGTG TCCTGCAGCG CCACGTTTCC CGCCACAACC ACCGGAACGA   840
GGATGAGGAG AACACACTCT CCGTGGACTG CACACGGATC TCCTTTGAGT ATGACCTCCG   900
CCTGGTGCTC TACCAGCACT GGTCCCTCCA TGACAGCCTG TGCAACACCA GCTATACCGC   960
AGCCAGGTTC AAGCTGTGGT CTGTGCATGG ACAGAAGCGG CTCCAGGAGT TCCTTGCAGA  1020
CATGGGTCTT CCCCTGAAGC AGGTGAAGCA GAAGTTCCAG GCCATGGACA TCTCCTTGAA  1080
GGAGAATTTG CGGGAAATGA TTGAAGAGTC TGCAAATAAA TTTGGGATGA AGGACATGCG  1140
CGTGCAGACT TTCAGCATTC ATTTTGGGTT CAAGCACAAG TTTCTGGCCA GCGACGTGGT  1200
CTTTGCCACC ATGTCTTTGA TGGAGAGCCC CGAGAAGGAT GGCTCAGGGA CAGATCACTT  1260
CATCCAGGCT CTGGACAGCC TCTCCAGGAG TAACCTGGAC AAGCTGTACC ATGGCCTGGA  1320
ACTCGCCAAG AAGCAGCTGC GAGCCACCCA GCAGACCATT GCCAGCTGCC TTTGCACCAA  1380
CCTCGTCATC TCCCAGGGGC CTTTCCTGTA CTGCTCTCTC ATGGAGGGCA CTCCAGATGT  1440
CATGCTGTTC TCTAGGCCGG CATCCCTAAG CCTGCTCAGC AAACACCTGC TCAAGTCCTT  1500
TGTGTGTTCG ACAAAGAACC GGCGCTGCAA ACTGCTGCCC CTGGTGATGG CTGCCCCCCT  1560
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GAGCATGGAG CATGGCACAG TGACCGTGGT GGGCATCCCC CCAGAGACCG ACAGCTCGGA  1620
CAGGAAGAAC TTTTTTGGGA GGGCGTTTGA GAAGGCAGCG GAAAGCACCA GCTCCCGGAT  1680
GCTGCACAAC CATTTTGACC TCTCAGTAAT TGAGCTGAAA GCTGAGGATC GGAGCAAGTT  1740
TCTGGACGCA CTTATTTCCC TCCTGTCCTA GGAATTTGAT TCTTCCAGAA TGACCTTCTT  1800
ATTTATGTAA CTGGCTTTCA TTTAGATTGT AAGTTATGGA CATGATTTGA GATGTAGAAG  1860
CCATTTTTTA TTAAATAAAA TGCTTATTTT AGGCTCCGTC CCCAAAAAAA AAAAAAAAAA  1920
AAAAAAAAAA AA
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Seq ID NO: 253 Protein sequence:
Protein Accession #: NP_003495.1

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1           11          21          31          41          51
|           |           |           |           |           |
MFVSDFRKEF YEVVQSQRVL LFVASDVDAL CACKILQALF QCDHVQYTLV PVSGWQELET    60
AFLEHKEQFH YFILINCGAN VDLLDILQPD EDTIFFVCDT HRPVNVVNVY NDTQIKLLIK   120
QDDDLEVPAY EDIFRDEEED EEHSGNDSDG SEPSEKRTRL EEEIVEQTMR RRQRREWEAR   180
RRDILFDYEQ YEYHGTSSAM VMFELAWMLS KDLNDMLWWA IVGLTDQWVQ DKITQMKYVT   240
DVGVLQRHVS RHNHRNEDEE NTLSVDCTRI SFEYDLRLVL YQHWSLHDSL CNTSYTAARF   300
KLWSVHGQKR LQEFLADMGL PLKQVKQKFQ AMDISLKENL REMIEESANK FGMKDMRVQT   360
FSIHFGFKHK FLASDVVFAT MSLMESPEKD GSGTDHFIQA LDSLSRSNLD KLYHGLELAK   420
KQLRATQQTI ASCLCTNLVI SQGPFLYCSL MEGTPDVMLF SRPASLSLLS KHLLKSFVCS   480
TKNRRCKLLP LVMAAPLSME HGTVTVVGIP PETDSSDRKN FFGRAFEKAA ESTSSRMLHN   540
HFDLSVIELK AEDRSKFLDA LISLLS
```

Seq ID NO: 254 DNA sequence
Nucleic Acid Accession #: NM_022337
Coding sequence: 48..683

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1           11          21          31          41          51
|           |           |           |           |           |
GGCTGCGCTT CCCTGGTCAG GCACGGCACG TCTGGCCGGC CGCCAGGATG CAGGCCCCGC    60
ACAAGGAGCA CCTGTACAAG TTGCTGGTGA TTGGCGACCT GGGCGTGGGG AAGACCAGTA   120
TCATCAAGCG CTACGTGCAC CAGAACTTCT CCTCGCACTA CCGGGCCACA ATCGGCGTGG   180
ACTTCGCGCT CAAGGTGCTC CACTGGGACC CGGAGACTGT GGTGCGCCTG CAGCTCTGGG   240
ATATCGCAGG TCAAGAAAGA TTTGGAAACA TGACGAGGGT CTATTACCGA GAAGCTATGG   300
GTGCATTTAT TGTCTTCGAT GTCACCAGGC CAGCCACATT TGAAGCAGTG GCAAAGTGGA   360
AAAATGATTT GGACTCCAAG TTAAGTCTCC CTAATGGCAA ACCGGTTTCA GTGGTTTTGT   420
TGGCCAACAA ATGTGACCAG GGGAAGGATG TGCTCATGAA CAATGGCCTC AAGATGGACC   480
AGTTCTGCAA GGAGCACGGT TTCGTAGGAT GGTTTGAAAC ATCAGCAAAG GAAAATATAA   540
ACATTGATGA AGCCTCCAGA TGCCTGGTGA AACACATACT TGCAAATGAG TGTGACCTAA   600
TGGAGTCTAT TGAGCCGGAC GTCGTGAAGC CCCATCTCAC ATCAACCAAG GTTGCCAGCT   660
GCTCTGGCTG TGCCAAATCC TAGTAGGCAC CTTTGCTGGT GTCTGGTAGG AATGACCTCA   720
TTGTTCCACA AATTGTGCCT CTATTTTTAC CATTTTGGGT AAACGTCAGG ATAGATATAC   780
CACATGTGGC AAGCCAAAGA TCTATGCCTC TGTTTTTTCA ATGAGAGAGA AATAGCAAAT   840
GTTCTTTCTA TGCTTTCCTC ACCATCATCA CAGTGTTTAC AAACTTTTGA AAATATTTAG   900
TCTGTTACAA ACTTCTGTCA TGTAGCTGAC CAAAATCCTG CAGGGCCACA GTCGGCACTG   960
TTATTTGCTT CTTTTAATCA GCAAAGGCCT CAAGTCTTAA AATAAAAGGG GAGAAGAACA  1020
AACTAGCTGT CAAGTCAAGG ACTGGCTTTC ACCTTGCCCT GGTGTCTTTT TCCAGATTTC  1080
AATATATTCT CTGATGGCCT GACAGGCCTA TTAAGTAGAT GTGATATTTT CTTCCAAGAT  1140
GACCTCCATT CTCGGCAGAC CTAAGAGTTG CCTCTGAGTT AGCTCTTTGG AATCGTGAAC  1200
ACAGGTGTGC TATATTGTCC TTGTCCTAAC TGTCACTTGC CATGGCCTGA ATGTTGGCTT  1260
AACTGAATAT TGTATGAAAA GACATGACCC CATATGTGCC TTTCTGTTAG CTCTCTTTGA  1320
CTCAAGCTGT GGGGCTCCTC TATACATGCT ATACATGTAA TATATATTAT ATATATTTTT  1380
GCAAGTGAAC AATAAAACAT TAAAAGATAA AA
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Seq ID NO: 255 Protein sequence:
Protein Accession #: NP_071732

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1           11          21          31          41          51
|           |           |           |           |           |
MQAPHKEHLY KLLVIGDLGV GKTSIIKRYV HQNFSSHYRA TIGVDFALKV LHWDPETVVR    60
LQLWDIAGQE RFGNMTRVYY REAMGAFIVF DVTRPATFEA VAKWKNDLDS KLSLPNGKPV   120
SVVLLANKCD QGKDVLMNNG LKMDQFCKEH GFVGWFETSA KENINIDEAS RCLVKHILAN   180
ECDLMESIEP DVVKPHLTST KVASCSGCAK S
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Seq ID NO: 256 DNA sequence
Nucleic Acid Accession #: NM_016321
Coding sequence: 25..1464

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1           11          21          31          41          51
|           |           |           |           |           |
GGAACCGCCC GCTGCCAGCC CGGCCAGGCA CCCCTGCAGC ATGGCCTGGA ACACCAACCT    60
CCGCTGGCGG CTGCCGCTCA CCTGCCTGCT CCTGCAGGTG ATTATGGTGA TTCTCTTCGG   120
GGTGTTCGTG CGCTACGACT TCGAGGCCGA CGCCCACTGG TGGTCAGAGA GGACGCACAA   180
GAACTTGAGC GACATGGAGA ACGAATTCTA CTATCGCTAC CCAAGCTTCC AGGACGTGCA   240
CGTGATGGTC TTCGTGGGCT TCGGCTTCCT CATGACTTTC CTGCAGCGCT ACGGCTTCAG   300
CGCCGTGGGC TTCAACTTCC TGTTGGCAGC CTTCGGCATC CAGTGGGCGC TGCTCATGCA   360
GGGCTGGTTC CACTTCTTAC AAGACCGCTA CATCGTCGTG GGCGTGGAGA ACCTCATCAA   420
CGCTGACTTC TGCGTGGCCT CTGTCTGCGT GGCCTTTGGG GCAGTTCTGG GTAAAGTCAG   480
CCCCATTCAG CTGCTCATCA TGACTTTCTT CCAAGTGACC CTCTTCGCTG TGAATGAGTT   540
CATTCTCCTT AACCTGCTAA AGGTGAAGGA TGCAGGAGGC TCCATGACCA TCCACACATT   600
TGGCGCCTAC TTTGGGCTCA CAGTGACCCG GATCCTCTAC CGACGCAACC TAGAGCAGAG   660
CAAGGAGAGA CAGAATTCTG TGTACCAGTC GGACCTCTTT GCCATGATTG GCACCCTCTT   720
CCTGTGGATG TACTGGCCCA GCTTCAACTC AGCCATATCC TACCATGGGG ACAGCCAGCA   780
CCGAGCCGCC ATCAACACCT ACTGCTCCTT GGCAGCCTGC GTGCTTACCT CGGTGGCAAT   840
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ATCCAGTGCC CTGCACAAGA AGGGCAAGCT GGACATGGTG CACATCCAGA ATGCCACGCT   900
CGCAGGAGGG GTGGCCGTGG GTACCGCTGC TGAGATGATG CTCATGCCTT ACGGTGCCCT   960
CATCATCGGC TTCGTCTGCG GCATCATCTC CACCCTGGGT TTTGTATACC TGACCCCATT  1020
CCTGGAGTCC CGGCTGCACA TCCAGGACAC ATGTGGCATT AACAATCTGC ATGGCATTCC  1080
TGGCATCATA GGCGGCATCG TGGGTGCTGT GACAGCGGCC TCCGCCAGCC TTGAAGTCTA  1140
TGGAAAAGAA GGGCTTGTCC ATTCCTTTGA CTTTCAAGGT TTCAACGGGG ACTGGACCGC  1200
AAGAACACAG GGAAAGTTCC AGATTTATGG TCTCTTGGTG ACCCTGGCCA TGGCCCTGAT  1260
GGGTGGCATC ATTGTGGGGC TCATTTTGAG ATTACCATTC TGGGGACAAC CTTCAGATGA  1320
GAACTGCTTT GAGGATGCGG TCTACTGGGA GATGCCTGAA GGGAACAGCA CTGTCTACAT  1380
CCCTGAGGAC CCCACCTTCA AGCCCTCAGG ACCCTCAGTA CCCTCAGTAC CCATGGTGTC  1440
CCCACTACCC ATGGCTTCCT CGGTACCCTT GGTACCCTAG GCTCCCAGGG CAGGTGAGGA  1500
GCAGGCTCCA CAGACTSTCC TGGGGCCCAG AGGAGCTGGT GCTGACCTAG CTAGGGATGC  1560
AAGAGTGAGC AAGCAGCACC CCCACCTGCT GGCTTGGCCT CAAGGTGCCT CCACCCCTGC  1620
CCTCCCCTTC ATCCCAGGGG GTCTGMCTGA GAATGGAGAA GGAGAAGCTA CAAAGTGGGC  1680
ATCCAAGCCG GGTTCTGGCT GCAGAAGTTC TGCCTCTGCC TGGGGTCTTG GCCACATTGG  1740
AGAAAAACAG GCTCAAAGTG GGGCTGGGAC CTGGTGGGTG AACCTGAGCT CTCCCAGGAG  1800
ACAACTTAGC TGCCAGTCAC CACCTATGAG GCTCTTCTAC CCCGTGCCTG CACCTCGGCC  1860
AGCATCTCCT ATGCTCCCTG GGTCCCCCAG ACCTCTCTGT GTTGTGTGCG TGGCAGCCTC  1920
CAGGAATAAA CATTCTTGTT GTCCTTTGTA AAAAAAAAAA AAAAAAAA
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Seq ID NO: 257 Protein sequence:
Protein Accession #: NP_057405

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1          11         21         31         41         51
|          |          |          |          |          |
MAWNTNLRWR LPLTCLLLQV IMVILFGVFV RYDFEADAHW WSERTHKNLS DMENEFYYRY    60
PSFQDVHVMV FVGFGFLMTF LQRYGFSAVG FNFLLAAFGI QWALLMQGWF HFLQDRYIVV   120
GVENLINADF CVASVCVAFG AVLGKVSPIQ LLIMTFFQVT LFAVNEFILL NLLKVKDAGG   180
SMTIHTFGAY FGLTVTRILY RRNLEQSKER QNSVYQSDLF AMIGTLFLWM YWPSFNSAIS   240
YHGDSQHRAA INTYCSLAAC VLTSVAISSA LHKKGKLDMV HIQNATLAGG VAVGTAAEMM   300
LMPYGALIIG FVCGIISTLG FVYLTPFLES RLHIQDTCGI NNLHGIPGII GGIVGAVTAA   360
SASLEVYGKE GLVHSFDFQG FNGDWTARTQ GKFQIYGLLV TLAMALMGGI IVGLILRLPF   420
WGQPSDENCF EDAVYWEMPE GNSTVYIPED PTFKPSGPSV PSVPMVSPLP MASSVPLVP
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Seq ID NO: 258 DNA sequence
Nucleic Acid Accession #: NM_002358.2
Coding sequence: 75..692

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1          11         21         31         41         51
|          |          |          |          |          |
GGGAAGTGCT GTTGGAGCCG CTGTGGTTGC TGTCCGCGGA GTGGAAGCGC GTGCTTTTGT    60
TTGTGTCCCT GGCCATGGCG CTGCAGCTCT CCCGGGAGCA GGGAATCACC CTGCGCGGGA   120
GCGCCGAAAT CGTGGCCGAG TTCTTCTCAT TCGGCATCAA CAGCATTTTA TATCAGCGTG   180
GCATATATCC ATCTGAAACC TTTACTCGAG TGCAGAAATA CGGACTCACC TTGCTTGTAA   240
CTACTGATCT TGAGCTCATA AAATACCTAA ATAATGTGGT GGAACAACTG AAAGATTGGT   300
TATACAAGTG TTCAGTTCAG AAACTGGTTG TAGTTATCTC AAATATTGAA AGTGGTGAGG   360
TCCTGGAAAG ATGGCAGTTT GATATTGAGT GTGACAAGAC TGCAAAAGAT GACAGTGCAC   420
CCAGAGAAAA GTCTCAGAAA GCTATCCAGG ATGAAATCCG TTCAGTGATC AGACAGATCA   480
CAGCTACGGT GACATTTCTG CCACTGTTGG AAGTTTCTTG TTCATTTGAT CTGCTGATTT   540
ATACAGACAA AGATTTGGTT GTACCTGAAA AATGGGAAGA GTCGGGACCA CAGTTTATTA   600
CCAATTCTGA GGAAGTCCGC CTTCGTTCAT TTACTACTAC AATCCACAAA GTAAATAGCA   660
TGGTGGCCTA CAAAATTCCT GTCAATGACT GAGGATGACA TGAGGAAAAT AATGTAATTG   720
TAATTTTGAA ATGTGGTTTT CCTGAAATCA GGTCATCTAT AGTTGATATG TTTTATTTCA   780
TTGGTTAATT TTTACATGGA GAAAACCAAA ATGATACTTA CTGAACTGTG TGTAATTGTT   840
CCTTTATTTT TTTGGTACCT ATTTGACTTA CCATGGAGTT AACATCATGA ATTTATTGCA   900
CATTGTTCAA AAGGAACCAG GAGGTTTTTT TGTCAACATT GTGATGTATA TTCCTTTGAA   960
GATAGTAACT GTAGATGGAA AAACTTGTGC TATAAAGCTA GATGCTTTCC TAAATCAGAT  1020
GTTTTGGTCA AGTAGTTTGA CTCAGTATAG GTAGGGAGAT ATTTAAGTAT AAAATACAAC  1080
AAAGGAAGTC TAAATATTCA GAATCTTTGT TAAGGTCCTG AAAGTAACTC ATAATCTATA  1140
AACAATGAAA TATTGCTGTA TAGCTCCTTT TGACCTTCAT TTCATGTATA GTTTTCCCTA  1200
TTGAATCAGT TTCCAATTAT TTGACTTTAA TTTATGTAAC TTGAACCTAT GAAGCAATGG  1260
ATATTTGTAC TGTTTAATGT TCTGTGATAC AGAACTCTTA AAAATGTTTT TTCATGTGTT  1320
TTATAAAATC AAGTTTTAAG TGAAAGTGAG GAAATAAAGT TAAGTTTGTT TTAAAAAAAA  1380
AAAAAAAAAA
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Seq ID NO: 259 Protein sequence:
Protein Accession #: NP_002349.1

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1          11         21         31         41         51
|          |          |          |          |          |
MALQLSREQG ITLRGSAEIV AEFFSFGINS ILYQRGIYPS ETFTRVQKYG LTLLVTTDLE    60
LIKYLNNVVE QLKDWLYKCS VQKLVVVISN IESGEVLERW QFDIECDKTA KDDSAPREKS   120
QKAIQDEIRS VIRQITATVT FLPLLEVSCS FDLLIYTDKD LVVPEKWEES GPQFITNSEE   180
VRLRSFTTTI HKVNSMVAYK IPVND
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Seq ID NO: 260 DNA sequence
Nucleic Acid Accession #: NM_001211
Coding sequence: 43..3195

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1          11         21         31         41         51
|          |          |          |          |          |
AAAGGCCTGC AGCAGGACGA GGACCTGAGC CAGGAATGCA GGATGGCGGC GGTGAAGAAG    60
GAAGGGGGTG CTCTGAGTGA AGCCATGTCC CTGGAGGGAG ATGAATGGGA ACTGAGTAAA   120
GAAAATGTAC AACCTTTAAG GCAAGGGCGG ATCATGTCCA CGCTTCAGGG AGCACTGGCA   180
CAAGAATCTG CCTGTAACAA TACTCTTCAG CAGCAGAAAC GGGCATTTGA ATATGAAATT   240
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CGATTTTACA CTGGAAATGA CCCTCTGGAT GTTTGGGATA GGTATATCAG CTGGACAGAG   300
CAGAACTATC CTCAAGGTGG GAAAGAGAGT AATATGTCAA CGTTATTAGA AAGAGCTGTA   360
GAAGCACTAC AAGGAGAAAA ACGATATTAT AGTGATCCTC GATTTCTCAA TCTCTGGCTT   420
AAATTAGGGC GTTTATGCAA TGAGCCTTTG GATATGTACA GTTACTTGCA CAACCAAGGG   480
ATTGGTGTTT CACTTGCTCA GTTCTATATC TCATGGGCAG AAGAATATGA AGCTAGAGAA   540
AACTTTAGGA AAGCAGATGC GATATTTCAG GAAGGGATTC AACAGAAGGC TGAACCACTA   600
GAAAGACTAC AGTCCCAGCA CCGACAATTC CAAGCTCGAG TGTCTCGGCA AACTCTGTTG   660
GCACTTGAGA AAGAAGAAGA GGAGGAAGTT TTTGAGTCTT CTGTACCACA ACGAAGCACA   720
CTAGCTGAAC TAAAGAGCAA AGGGAAAAAG ACAGCAAGAG CTCCAATCAT CCGTGTAGGA   780
GGTGCTCTCA AGGCTCCAAG CCAGAACAGA GGACTCCAAA ATCCATTTCC TCAACAGATG   840
CAAAATAATA GTAGAATTAC TGTTTTTGAT GAAAATGCTG ATGAGGCTTC TACAGCAGAG   900
TTGTCTAAGC CTACAGTCCA GCCATGGATA GCACCCCCCA TGCCCAGGGC CAAAGAGAAT   960
GAGCTGCAAG CAGGCCCTTG GAACACAGGC AGGTCCTTGG AACACAGGCC TCGTGGCAAT  1020
ACAGCTTCAC TGATAGCTGT ACCCGCTGTG CTTCCCAGTT TCACTCCATA TGTGGAAGAG  1080
ACTGCACAAC AGCCAGTTAT GACACCATGT AAAATTGAAC CTAGTATAAA CCACATCCTA  1140
AGCACCAGAA AGCCTGGAAA GGAAGAAGGA GATCCTCTAC AAAGGGTTCA GAGCCATCAG  1200
CAAGCGTCTG AGGAGAAGAA AGAGAAGATG ATGTATTGTA AGGAGAAGAT TTATGCAGGA  1260
GTAGGGGAAT TCTCCTTTGA AGAAATTCGG GCTGAAGTTT TCCGGAAGAA ATTAAAAGAG  1320
CAAAGGGAAG CCGAGCTATT GACCAGTGCA GAGAAGAGAG CAGAAATGCA GAAACAGATT  1380
GAAGAGATGG AGAAGAAGCT AAAAGAAATC CAAACTACTC AGCAAGAAAG AACAGGTGAT  1440
CAGCAAGAAG AGACGATGCC TACAAAGGAG ACAACTAAAC TGCAAATTGC TTCCGAGTCT  1500
CAGAAAATAC CAGGAATGAC TCTATCCAGT TCTGTTTGTC AAGTAAACTG TTGTGCCAGA  1560
GAAACTTCAC TTGCGGAGAA CATTTGGCAG GAACAACCTC ATTCTAAAGG TCCCAGTGTA  1620
CCTTTCTCCA TTTTTGATGA GTTTCTTCTT TCAGAAAAGA AGAATAAAAG TCCTCCTGCA  1680
GATCCCCCAC GAGTTTTAGC TCAACGAAGA CCCCTTGCAG TTCTCAAAAC CTCAGAAAGC  1740
ATCACCTCAA ATGAAGATGT GTCTCCAGAT GTTTGTGATG AATTTACAGG AATTGAACCC  1800
TTGAGCGAGG ATGCCATTAT CACAGGCTTC AGAAATGTAA CAATTTGTCC TAACCCAGAA  1860
GACACTTGTG ACTTTGCCAG AGCAGCTCGT TTTGTATCCA CTCCTTTTCA TGAGATAATG  1920
TCCTTGAAGG ATCTCCCTTC TGATCCTGAG AGACTGTTAC CGGAAGAAGA TCTAGATGTA  1980
AAGACCTCTG AGGACCAGCA GACAGCTTGT GGCACTATCT ACAGTCAGAC TCTCAGCATC  2040
AAGAAGCTGA GCCCAATTAT TGAAGACAGT CGTGAAGCCA CACACTCCTC TGGCTTCTCT  2100
GGTTCTTCTG CCTCGGTTGC AAGCACCTCC TCCATCAAAT GTCTTCAAAT TCCTGAGAAA  2160
CTAGAACTTA CTAATGAGAC TTCAGAAAAC CCTACTCAGT CACCATGGTG TTCACAGTAT  2220
CGCAGACAGC TACTGAAGTC CCTACCAGAG TTAAGTGCCT CTGCAGAGTT GTGTATAGAA  2280
GACAGACCAA TGCCTAAGTT GGAAATTGAG AAGGAAATTG AATTAGGTAA TGAGGATTAC  2340
TGCATTAAAC GAGAATACCT AATATGTGAA GATTACAAGT TATTCTGGGT GGCGCCAAGA  2400
AACTCTGCAG AATTAACAGT AATAAAGGTA TCTTCTCAAC CTGTCCCATG GGACTTTTAT  2460
ATCAACCTCA AGTTAAAGGA ACGTTTAAAT GAAGATTTTG ATCATTTTTG CAGCTGTTAT  2520
CAATATCAAG ATGGCTGTAT TGTTTGGCAC CAATATATAA ACTGCTTCAC CCTTCAGGAT  2580
CTTCTCCAAC ACAGTGAATA TATTACCCAT GAAATAACAG TGTTGATTAT TTATAACCTT  2640
TTGACAATAG TGGAGATGCT ACACAAAGCA GAAATAGTCC ATGGTGACTT GAGTCCAAGG  2700
TGTCTGATTC TCAGAAACAG AATCCACGAT CCCTATGATT GTAACAAGAA CAATCAAGCT  2760
TTGAAGATAG TGGACTTTTC CTACAGTGTT GACCTTAGGG TGCAGCTGGA TGTTTTTACC  2820
CTCAGCGGCT TTCGGACTGT ACAGATCCTG GAAGGACAAA AGATCCTGGC TAACTGTTCT  2880
TCTCCCTACC AGGTAGACCT GTTTGGTATA GCAGATTTAG CACATTTACT ATTGTTCAAG  2940
GAACACCTAC AGGTCTTCTG GGATGGGTCC TTCTGGAAAC TTAGCCAAAA TATTTCTGAG  3000
CTAAAAGATG GTGAATTGTG GAATAAATTC TTTGTGCGGA TTCTGAATGC CAATGATGAG  3060
GCCACAGTGT CTGTTCTTGG GGAGCTTGCA GCAGAAATGA ATGGGGTTTT TGACACTACA  3120
TTCCAAAGTC ACCTGAACAA AGCCTTATGG AAGGTAGGGA AGTTAACTAG TCCTGGGGCT  3180
TTGCTCTTTC AGTGAGCTAG GCAATCAAGT CTCACAGATT GCTGCCTCAG AGCAATGGTT  3240
GTATTGTGGA ACACTGAAAC TGTATGTGCT GTAATTTAAT TTAGGACACA TTTAGATGCA  3300
CTACCATTGC TGTTCTACTT TTTGGTACAG GTATATTTTG ACGTCACTGA TATTTTTTAT  3360
ACAGTGATAT ACTTACTCAT GGCCTTGTCT AACTTTTGTG AAGAACTATT TTATTCTAAA  3420
CAGACTCATT ACAAATGGTT ACCTTGTTAT TTAACCCATT TGTCTCTACT TTTCCCTGTA  3480
CTTTTCCCAT TTGTAATTTG TAAAATGTTC TCTTATGATC ACCATGTATT TTGTAAATAA  3540
TAAAATAGTA TCTGTTAAAA AAAAAAAAAA AAAAAAAAAA AAA
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Seq ID NO: 261 Protein sequence:
Protein Accession #: NP_001202

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1          11         21         31         41         51
|          |          |          |          |          |
MAAVKKEGGA LSEAMSLEGD EWELSKENVQ PLRQGRIMST LQGALAQESA CNNTLQQQKR    60
AFEYEIRFYT GNDPLDVWDR YISWTEQNYP QGGKESNMST LLERAVEALQ GEKRYYSDPR   120
FLNLWLKLGR LCNEPLDMYS YLHNQGIGVS LAQFYISWAE EYEARENFRK ADAIFQEGIQ   180
QKAEPLERLQ SQHRQFQARV SRQTLLALEK EEEEEVFESS VPQRSTLAEL KSKGKKTARA   240
PIIRVGGALK APSQNRGLQN PFPQQMQNNS RITVFDENAD EASTAELSKP TVQPWIAPPM   300
PRAKENELQA GPWNTGRSLE HRPRGNTASL IAVPAVLPSF TPYVEETAQQ PVMTPCKIEP   360
SINHILSTRK PGKEEGDPLQ RVQSHQQASE EKKEKMMYCK EKIYAGVGEF SFEEIRAEVF   420
RKKLKEQREA ELLTSAEKRA EMQKQIEEME KKLKEIQTTQ QERTGDQQEE TMPTKETTKL   480
QIASESQKIP GMTLSSSVCQ VNCCARETSL AENIWQEQPH SKGPSVPFSI FDEFLLSEKK   540
NKSPPADPPR VLAQRRPLAV LKTSESITSN EDVSPDVCDE FTGIEPLSED AIITGFRNVT   600
ICPNPEDTCD FARAARFVST PFHEIMSLKD LPSDPERLLP EEDLDVKTSE DQQTACGTIY   660
SQTLSIKKLS PIIEDSREAT HSSGFSGSSA SVASTSSIKC LQIPEKLELT NETSENPTQS   720
PWCSQYRRQL LKSLPELSAS AELCIEDRPM PKLEIEKEIE LGNEDYCIKR EYLICEDYKL   780
FWVAPRNSAE LTVIKVSSQP VPWDFYINLK LKERLNEDFD HFCSCYQYQD GCIVWHQYIN   840
CFTLQDLLQH SEYITHEITV LIIYNLLTIV EMLHKAEIVH GDLSPRCLIL RNRIHDPYDC   900
NKNNQALKIV DFSYSVDLRV QLDVFTLSGF RTVQILEGQK ILANCSSPYQ VDLFGIADLA   960
HLLLFKEHLQ VFWDGSFWKL SQNISELKDG ELWNKFFVRI LNANDEATVS VLGELAAEMN  1020
GVFDTTFQSH LNKALWKVGK LTSPGALLFQ
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Seq ID NO: 262 DNA sequence
Nucleic Acid Accession #: NM_003784
Coding sequence: 365..1507

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1          11         21         31         41         51
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GTCTACTTAT CAATAAGCAG CTGCCTGTGC AGAGTGCAGG CTGCACCTTT GGACAGCCTT   60
TAAAACTGAA TTCTCAGAAT TTTAGAACAA ATTTTTGTCT AGAAATGCTG ACTTTGGTTC  120
ATTAGGTAGT GGTAAAACAG GCTCCCTTCG AAGCTCTCCT TCATCACCTT CCTAAGTGCA  180
TGTACAGGGA AGCTCTCCTT CATCACCTTC CTAAGTGCAT GGGGGAAAAT ACCTAGGGCT  240
CAACAGTCTT GAGAAGTGTG GAAACATTTT CTTTGTGAGT GAGAACAGAT CACCTAGAGA  300
AAGGAAACCA GATTCCCATC ACTGCTTCTG GGTATCAGAT GCTAGCGCTG CACTCCATTT  360
TGCAATGGCC TCCCTTGCTG CAGCAAATGC AGAGTTTTGC TTCAACCTGT TCAGAGAGAT  420
GGATGACAAT CAAGGAAATG GAAATGTGTT CTTTTCCTCT CTGAGCCTCT TCGCTGCCCT  480
GGCCCTGGTC CGCTTGGGCG CTCAAGATGA CTCCCTCTCT CAGATTGATA AGTTGCTTCA  540
TGTTAACACT GCCTCAGGAT ATGGAAACTC TTCTAATAGT CAGTCAGGGC TCCAGTCTCA  600
ACTGAAAAGA GTTTTTTCTG ATATAAATGC ATCCCACAAG GATTATGATC TCAGCATTGT  660
GAATGGGCTT TTTGCTGAAA AAGTGTATGG CTTTCATAAG GACTACATTG AGTGTGCCGA  720
AAAATTATAC GATGCCAAAG TGGAGCGAGT TGACTTTACG AATCATTTAG AAGACACTAG  780
ACGTAATATT AATAAGTGGG TTGAAAATGA AACACATGGC AAAATCAAGA ACGTGATTGG  840
TGAAGGTGGC ATAAGCTCAT CTGCTGTAAT GGTGCTGGTG AATGCTGTGT ACTTCAAAGG  900
CAAGTGGCAA TCAGCCTTCA CCAAGAGCGA AACCATAAAT TGCCATTTCA AATCTCCCAA  960
GTGCTCTGGG AAGGCAGTCG CCATGATGCA TCAGGAACGG AAGTTCAATT TGTCTGTTAT 1020
TGAGGACCCA TCAATGAAGA TTCTTGAGCT CAGATACAAT GGTGGCATAA ACATGTACGT 1080
TCTGCTGCCT GAGAATGACC TCTCTGAAAT TGAAAACAAA CTGACCTTTC AGAATCTAAT 1140
GGAATGGACC AATCCAAGGC GAATGACCTC TAAGTATGTT GAGGTATTTT TTCCTCAGTT 1200
CAAGATAGAG AAGAATTATG AAATGAAACA ATATTTGAGA GCCCTAGGGC TGAAAGATAT 1260
CTTTGATGAA TCCAAAGCAG ATCTCTCTGG GATTGCTTCG GGGGGTCGTC TGTATATATC 1320
AAGGATGATG CACAAATCTT ACATAGAGGT CACTGAGGAG GGCACCGAGG CTACTGCTGC 1380
CACAGGAAGT AATATTGTAG AAAAGCAACT CCCTCAGTCC ACGCTGTTTA GAGCTGACCA 1440
CCCATTCCTA TTTGTTATCA GGAAGGATGA CATCATCTTA TTCAGTGGCA AAGTTTCTTG 1500
CCCTTGAAAA TCCAATTGGT TTCTGTTATA GCAGTCCCCA CAACATCAAA GRACCACCAC 1560
AAGTCAATAG ATYTGRGTTT AATTGGAAAA ATGTGGTGTT TCCTTTGAGT TTATTTCTTC 1620
CTAACATTGG TCAGCAGATG ACACTGGTGA CTTGACCCTT CCTAGACACC TGGTTGATTG 1680
TCCTGATCCC TGCTCTTAGC ATTCTACCAC CATGTGTCTC ACCCATTTCT AATTTCATTG 1740
TCTTTCTTCC CACGCTCATT TCTATCATTC TCCCCCATGA CCCGTCTGGA AATTATGGAG 1800
RGTGCTCAAC TGGTAAGGAG AACGTAGAAG TAGCCCTAGG GATCCTTTTT GAAACTCTAC 1860
AGTTATCGCA GATATTCTAG CTTCATTGTA AGCAATCTAG GAAATAAGCC CTGCTGCTTT 1920
CTAGAAATAA GTGTGAAGGA TAAATTTTCT TTGTTGACCT ATGAAGATTT TAGAGTTTAC 1980
CTTCATATGT TTGATTTTAA ATCAGTGTAT AATCTAGATG GTAAAAAATG TGAAATTGGG 2040
ATTAGGGACC TACCAAAATA TTTCATTAAT GCTTTCAATT GACAAATTTT GGCCTTTCTT 2100
TGATAAGACA ATATGTACAT GTTTTTTCAA ATATTAAAGA TCTTTTAACT GTTGGCAGTT 2160
GTTATCTACA GAATCATATT TCATATGCTG TGTAGTTTAT AAGTTTTTCC TCTATTTATC 2220
AGAATAAAGA AATACAACAT ACCTGTAAA
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Seq ID NO: 263 Protein sequence:
Protein Accession #: NP_003775

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1           11          21          31          41          51
|           |           |           |           |           |
MASLAAANAE FCFNLFREMD DNQGNGNVFF SSLSLFAALA LVRLGAQDDS LSQIDKLLHV   60
NTASGYGNSS NSQSGLQSQL KRVFSDINAS HKDYDLSIVN GLFAEKVYGF HKDYIECAEK  120
LYDAKVERVD FTNHLEDTRR NINKWVENET HGKIKNVIGE GGISSSAVMV LVNAVYFKGK  180
WQSAFTKSET INCHFKSPKC SGKAVAMMHQ ERKFNLSVIE DPSMKILELR YNGGINMYVL  240
LPENDLSEIE NKLTFQNLME WTNPRRMTSK YVEVFFPQFK IEKNYEMKQY LRALGLKDIF  300
DESKADLSGI ASGGRLYISR MMHKSYIEVT EEGTEATAAT GSNIVEKQLP QSTLFRADHP  360
FLFVIRKDDI ILFSGKVSCP
```

Seq ID NO: 264 DNA sequence
Nucleic Acid Accession #: AB052906
Coding sequence: 74-814

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1           11          21          31          41          51
|           |           |           |           |           |
AAAACCTTGA GGTGATTCAT CTTCCAGGCT CTCCTTCCAT CAAGTCTCTC CTCCCTAGCG   60
CTCTGGGTCC TTAATGGCAG CAGCCGCCGC TACCAAGATC CTTCTGTGCC TCCCGCTTCT  120
GCTCCTGCTG TCCGGCTGGT CCCGGGCTGG GCGAGCCGAC CCTCACTCTC TTTGCTATGA  180
CATCACCGTC ATCCCTAAGT TCAGACCTGG ACCACGGTGG TGTGCGGTTC AAGGCCAGGT  240
GGATGAAAAG ACTTTTCTTC ACTATGACTG TGGCAACAAG ACAGTCACAC CTGTCAGTCC  300
CCTGGGGAAG AAACTAAATG TCACAACGGC CTGGAAAGCA CAGAACCCAG TACTGAGAGA  360
GGTGGTGGAC ATACTTACAG AGCAACTGCG TGACATTCAG CTGGAGAATT ACACACCCAA  420
GGAACCCCTC ACCCTGCAGG CCAGGATGTC TTGTGAGCAG AAAGCTGAAG GACACAGCAG  480
TGGATCTTGG CAGTTCAGTT TCGATGGGCA GATCTTCCTC CTCTTTGACT CAGAGAAGAG  540
AATGTGGACA ACGGTTCATC CTGGAGCCAG AAAGATGAAA GAAAAGTGGG AGAATGACAA  600
GGTTGTGGCC ATGTCCTTCC ATTACTTCTC AATGGGAGAC TGTATAGGAT GGCTTGAGGA  660
CTTCTTGATG GGCATGGACA GCACCCTGGA GCCAAGTGCA GGAGCACCAC TCGCCATGTC  720
CTCAGGCACA ACCCAACTCA GGGCCACAGC CACCACCCTC ATCCTTTGCT GCCTCCTCAT  780
CATCCTCCCC TGCTTCATCC TCCCTGGCAT CTGAGGAGAG TCCTTTAGAG TGACAGGTTA  840
AAGCTGATAC CAAAAGGCTC CTGTGAGCAC GGTCTTGATC AAACTCGCCC TTCTGTCTGG  900
CCAGCTGCCC ACGACCTACG GTGTATGTCC AGTGGCCTCC AGCAGATCAT GATGACATCA  960
TGGACCCAAT AGCTCATTCA CTGCCTTGAT TCCTTTTGCC AACAATTTTA CCAGCAGTTA 1020
TACCTAACAT ATTATGCAAT TTTCTCTTGG TGCTACCTGA TGGAATTCCT GCACTTAAAG 1080
TTCTGGCTGA CTAAACAAGA TATATCATTT TCTTTCTTCT CTTTTTGTTT GGAAAATCAA 1140
GTACTTCTTT GAATGATGAT CTCTTTCTTG CAAATGATAT TGTCAGTAAA ATAATCACGT 1200
TAGACTTCAG ACCTCTGGGG ATTCTTTCCG TGTCCTGAAA GAGAATTTTT AAATTATTTA 1260
ATAAGAAAAA ATTTATATTA ATGATTGTTT CCTTTAGTAA TTTATTGTTC TGTACTGATA 1320
TTTAAATAAA GAGTTCTATT TCCCAAAAAA AAAAAAAAAA A
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Seq ID NO: 265 Protein sequence:
Protein Accession #: BAB61048.1

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1          11         21         31         41         51
|          |          |          |          |          |
MAAAAATKIL LCLPLLLLLS GWSRAGRADP HSLCYDITVI PKFRPGPRWC AVQGQVDEKT    60
FLHYDCGNKT VTPVSPLGKK LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT   120
LQARMSCEQK AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM   180
SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMSSGTT QLRATATTLI LCCLLIILPC   240
FILPGI

Seq ID NO: 266 DNA sequence
Nucleic Acid Accession #:  XM_084853.1
Coding sequence: 127-444

1          11         21         31         41         51
|          |          |          |          |          |
ATTGATGATA TATTTAACGA AATCAAATTT GGTGAATATG TGGACACTGG AAAGCTAATC    60
GACAAGATCA ACTTACCAGA TTTCCTAAAA GTGTACCTTA ACCACAAGCC ACCTTTTGGT   120
AACACCATGA GTGGCATCCA CAAGAGCTTT GAGGTGCTCG GTTATACCAA CTCCAAAGGG   180
AAAAAGGCCA TTCGAAGAGA GGACTTCCTG AGACTGCTCG TTACTAAAGG TGAGCATATG   240
ACGGAGGAGG AGATGTTGGA TTGCTTTGCT TCACTGTTTG GCCTGAATCC CGAGGGATGG   300
AAATCCGAGC CTGCAACCTG CTCCGTCAAA GGTTCAGAAA TTTGCCTTGA AGAAGAACTT   360
CCAGACGAAA TCACTGCAGA AATATTCGCG ACTGAAATTC TTGGCTTAAC CATTTCAGAA   420
GATTCCGGCC AGGATGGTCA GTGAAGTTAC CAGGAATGTT TAAAGCACAA AGGACTTTGG   480
GTGTGTGTGC ATGCACATGT GTGTGTTTTC CATGAGGCAC TGCTTTTTAT GCATTTCCCT   540
CCCCCCTCTC ATCTTTAGAA CATTTAGACA TTAAAGCAAG TTTCTGGTGA GCAATG

Seq ID NO: 267 Protein sequence:
Protein Accession #: XP_084853.1

1          11         21         31         41         51
|          |          |          |          |          |
MSGIHKSFEV LGYTNSKGKK AIRREDFLRL LVTKGEHMTE EEMLDCFASL FGLNPEGWKS    60
EPATCSVKGS EICLEEELPD EITAEIFATE ILGLTISEDS GQDGQ

Seq ID NO: 268 DNA sequence
Nucleic Acid Accession #: NM_001898
Coding sequence: 57-482

1          11         21         31         41         51
|          |          |          |          |          |
GGCTCTCACC CTCCTCTCCT GCAGCTCCAG CTTTGTGCTC TGCCTCTGAG GAGACCATGG    60
CCCAGTATCT GAGTACCCTG CTGCTCCTGC TGGCCACCCT AGCTGTGGCC CTGGCCTGGA   120
GCCCCAAGGA GGAGGATAGG ATAATCCCGG GTGGCATCTA TAACGCAGAC CTCAATGATG   180
AGTGGGTACA GCGTGCCCTT CACTTCGCCA TCAGCGAGTA TAACAAGGCC ACCAAAGATG   240
ACTACTACAG ACGTCCGCTG CGGGTACTAA GAGCCAGGCA ACAGACCGTT GGGGGGGTGA   300
ATTACTTCTT CGACGTAGAG GTGGGCCGCA CCATATGTAC CAAGTCCCAG CCCAACTTGG   360
ACACCTGTGC CTTCCATGAA CAGCCAGAAC TGCAGAAGAA ACAGTTGTGC TCTTTCGAGA   420
TCTACGAAGT TCCCTGGGAG AACAGAAGGT CCCTGGTGAA ATCCAGGTGT CAAGAATCCT   480
AGGGATCTGT GCCAGGCCAT TCGCACCAGC CACCACCCAC TCCCACCCCC TGTAGTGCTC   540
CCACCCCTGG ACTGGTGGCC CCCACCCTGC GGGAGGCCTC CCCATGTGCC TGCGCCAAGA   600
GACAGACAGA GAAGGCTGCA GGAGTCCTTT GTTGCTCAGC AGGGCGCTCT GCCCTCCCTC   660
CTTCCTTCTT GCTTCTAATA GCCCTGGTAC ATGGTACACA CCCCCCCACC TCCTGCAATT   720
AAACAGTAGC ATCGCC

Seq ID NO: 269 Protein sequence:
Protein Accession #:NP_001889.1

1          11         21         31         41         51
|          |          |          |          |          |
MAQYLSTLLL LLATLAVALA WSPKEEDRII PGGIYNADLN DEWVQRALHF AISEYNKATK    60
DDYYRRPLRV LRARQQTVGG VNYFFDVEVG RTICTKSQPN LDTCAFHEQP ELQKKQLCSF   120
EIYEVPWENR RSLVKSRCQE S

Seq ID NO: 270 DNA sequence
Nucleic Acid Accession #: XM_093210
Coding sequence: 13-1854

1          11         21         31         41         51
|          |          |          |          |          |
ATGGCAAGCG CCGGAATCTC CTCAGCTGCC GTTTCACAAA AGAGGTACCA GGTCCGCACC    60
AAACGAGCAC ACAAGCAGCA CCAGGAGCTG CAGAAGAAGG AGGCGGCAGC GATGGACCAG   120
GGCAGAGGGA ATGGGGAGGG GGCATCCTAC CCCATATCTG AGGTGCGACT GCGGGACGTA   180
GAGCGGACTG GGCCTTTCCC GTTGGCGCGT GGCCTCAATC AGGACTTCTT GCCCACGTGC   240
GCCTTCAAAA CGGTAAGAGC TGCAACTGAA CGTGTGAGAC ATGGTGCAGA TAGGCTGAGA   300
GGCGGCGGGA GAGATGCCCA TGAACTCAAG TACCCGGACA CGCCCTCCAC TTCTACCACC   360
ACGAGTAACA CCGCCCCCAC GGGACCGCTC TCGAGGTCCC CCAAGCCAAG GACGCAAGGA   420
GGAACGCCCC GGCGCGCGGC CAGCAGCGGC GGGCACCGGC CCAATGGCCA CGGAACTCAG   480
CACTGGCAGT CGGCCCTCCT CACACCGCAG GCGTGCAGTG TGGCCGACGG AGCCTCCCGG   540
GCCGAGGACC CAGCTAGGCC GTCACCCCGG TTGCTCCCAC GGGAAGGGGC ACCAGGCAAA   600
CTGCCCAAGG CCCCGAGCCC AGGCTCCCTG GCGGAGGCCT CCGCTGGTCC CGCCCAGATC   660
ATGGCCGCCA CCAGGCTCCC GAGCCATGGC TTCCTGTCCG GGAACGGCCC GGCGTCCTGG   720
CTGTCCAGCT AG

Seq ID NO: 271 Protein sequence:
Protein Accession #: XP_093210

1          11         21         31         41         51
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|          |          |          |          |          |
MLRHGEQKRK RARKKWDFLP TCAFKTVRAA TERVRHGADR LRGGGRDAHE LKYPDTPSTS    60
TTTSNTAPTG PLSRSPKPRT QGGTPRRRPA AAGTRANGHG TQHWQSALLT PQACSVADGA   120
SRAEDPARPS PRLLPREGAP GKLPKAPSPG SLAEASAGLL AHVRLQNADA QRVSISQALP   180
PNSSVGRKEE RPGAGQQRRA PAPMATELST GSRPSSHRRR AVWPTEPPGP RTQLEPSPRL   240
LPREGAPGKL PKAPSPGSLA EASAGPAQIM AATRLPSRGF LSGNGPASWL SS

Seq ID NO: 272 DNA sequence
Nucleic Acid Accession #:  Eos sequence
Coding sequence: 1..732

1          11         21         31         41         51
|          |          |          |          |          |
GGATACTGTG TCACTCAAAG TAATGGGAGG GAGAGAGAAC AGGGAGGGTA GGGATGCTTT    60
TGAAAAAGCT TTTTTTCCCA CTTTTAACTT GCTTTAGCGT TAAGAGTACT TACCAGCTAA   120
TAATGTGGAG GAAATTATTC TTTCTCATTG GAGATTACAG AATATATCTA TTCATCTTGA   180
ATACCCACTT GAAGCCTCTG TAGAAATGTC TCGTCCTCCG GTTGTATTTC TAAAACCTAC   240
ATGATTTTGT CTTGTTTCTG CAGTGAGAAA TTACATCCAT AGCAAAGACA AAAGTCTTTT   300
TAAATTATTT TTATTTATCT TTCATATAGT TCTTACAATT TCTAAAAAAT TAACACTCAT   360
TTAGTATCAC AATTTATGGG AGAGGGTTTT TTGTATTTTT AAGCATATGT GGCTTATATA   420
AAAATTGCAG AAGTCATAGG ACTGTCATGT ATTGCAGCTC TGAGAACCAA TGCCTGAAAC   480
TTAAGCC

Seq ID NO: 273 Protein sequence:
Protein Accession #: Eos sequence

1          11         21         31         41         51
|          |          |          |          |          |
MGGRENREGR DAFEKAFFPT FNLL

Seq ID NO: 274 DNA sequence
Nucleic Acid Accession #:  NM_003976.2
Coding sequence: 299-961

1          11         21         31         41         51
|          |          |          |          |          |
CTCTGAGCTT CTCTGAGCCT TGTTTGCTCA TCTGGAAAAA GGGGATTAAA CCATTTACCT    60
CATGGAGTTG TGAAAGAATA GCTGCAAAGC ACCTAACACA TAGTAAGGTT CCCAGTGCAG   120
CTACTTCTGC TGGGTTGAGT CTAGCTGTGT AGGCCCCTTG TTCCTCACCT GGAGAAACTG   180
GGGTGGCAGG CCGGTCCCCC ACAAAAGATA ACTCATCTCT TAATTTGCAA GCTGCCTCAA   240
CAGGAGGGTG GGGGAACAGC TCAACAATGG CTGATGGGCG CTCCTGGTGT TGATAGAGAT   300
GGAACTTGGA CTTGGAGGCC TCTCCACGCT GTCCCACTGC CCCTGGCCTA GGCGGCAGCC   360
TGCCCTGTGG CCCACCCTGG CCGCTCTGGC TCTGCTGAGC AGCGTCGCAG AGGCCTCCCT   420
GGGCTCCGCG CCCCGCAGCC CTGCCCCCCG CGAAGGCCCC CCGCCTGTCC TGGCGTCCCC   480
CGCCGGCCAC CTGCCGGGGG GACGCACGGC CCGCTGGTGC AGTGGAAGAG CCCGGCGGCC   540
GCCGCCGCAG CCTTCTCGGC CCGCGCCCCC GCCGCCTGCA CCCCCATCTG CTCTTCCCCG   600
CGGGGGCCGC GCGGCGCGGG CTGGGGGCCC GGGCAGCCGC GCTCGGGCAG CGGGGGCGCG   660
GGGCTGCCGC CTGCGCTCGC AGCTGGTGCC GGTGCGCGCG CTCGGCCTGG GCCACCGCTC   720
CGACGAGCTG GTGCGTTTCC GCTTCTGCAG CGGCTCCTGC CGCCGCGCGC GCTCTCCACA   780
CGACCTCAGC CTGGCCAGCC TACTGGGCGC CGGGGCCCTG CGACCGCCCC CGGGCTCCCG   840
GCCCGTCAGC CAGCCCTGCT GCCGACCCAC GCGCTACGAA GCGGTCTCCT TCATGGACGT   900
CAACAGCACC TGGAGAACCG TGGACCGCCT CTCCGCCACC GCCTGCGGCT GCCTGGGCTG   960
AGGGCTCGCT CCAGGGCTTT GCAGACTGGA CCCTTACCGG TGGCTCTTCC TGCCTGGGAC  1020
CCTCCCGCAG AGTCCCACTA GCCAGCGGCC TCAGCCAGGG ACGAAGGCCT CAAAGCTGAG  1080
AGGCCCCTAC CGGTGGGTGA TGGATATCAT CCCCGAACAG GTGAAGGGAC AACTGACTAG  1140
CAGCCCCAGA GCCCTCACCC TGCGGATCCC AGCCTAAAAG ACACCAGAGA CCTCAGCTAT  1200
GGAGCCCTTC GGACCCACTT CTCACAGACT CTGGCACTGG CCAGGCCTCG AACCTGGGAC  1260
CCCTCCTCTG ATGAACACTA CAGTGGCTGA GGCATCAGCC CCCGCCCAGG CCCTGTAGGG  1320
ACAGCATTTG AAGGACACAT ATTGCAGTTG CTTGGTTGAA AGTGCCTGTG CTGGAACTGG  1380
CCTGTACTCA CTCATGGGAG CTGGCCCC

Seq ID NO: 275 Protein sequence:
Protein Accession #: NP_003967.1

1          11         21         31         41         51
|          |          |          |          |          |
MELGLGGLST LSHCPWPRRQ PALWPTLAAL ALLSSVAEAS LGSAPRSPAP REGPPPVLAS    60
PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP RGGRAARAGG PGSRARAAGA   120
RGCRLRSQLV PVRALGLGHR SDELVRFRFC SGSCRRARSP HDLSLASLLG AGALRPPPGS   180
RPVSQPCCRP TRYEAVSFMD VNSTWRTVDR LSATACGCLG

Seq ID NO: 276 DNA sequence
Nucleic Acid Accession #: NM_057091.1
Coding sequence: 783-1445

1          11         21         31         41         51
|          |          |          |          |          |
ACTGGCCGCT GAGAGAAGAA TCGGGTGGAG CAGAGAGCAG CTGCTGCAGG GCAGACAGCC    60
GGACCCCCAA ATCTGCACGT ACCAGCAGTC AGCCGCCCCA CGCAGGGACC GGCTTACCCC   120
TCGCTCCCCG CCCTCACTCA CTTTCTCCCG CCCTCGGCCC GGCCTCCCAG CTCTCTACTT   180
CGCGTGTCTA CAAACTCAAC TCCCGGTTTC CGTGCCTCTC CACCGCTCGA GTTCTCTACT   240
CTCCATATCC GAGGGGCCCC TCCCAGCATC TACCCCCCTC CCAACCTCGG GGGACCTAGC   300
CAAGCTAGGG GGGACTGGAT CCGACGGGTG GAGCAGCCAG GTGAGCCCCG AAAGGTGGGG   360
CGGGGCAGGG GCGCTCCCAG CCCCACCCCG GGATCTGGTG ACGCTGGGGC TGGAATTTGA   420
CACCGGACGG CTGCGGCGGC GGGCAGGAGG CTGCTGAGGG ATGGAGTTGG GCCCGGCCCC   480
CAGACAAGGC CCGGGGGCTC CGCCAGCAGC AGGTCCCTCG GGCCCCAGCC CTCGCTGCCA   540
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CCCGGGCCTG GAGCCCCACA CCCGAGGGTG CAGACTGGCT GCCAAGGCCA CACTTTTGGC   600
TAAAAGAGGC ACTGCCAGGT GTACAGTCCT GGGCATGCGC TGTTTGAGCT TCGGGGGAGA   660
GCCCAGCACT GGTCCCCGGA AAGGTGCCTA GAAGAACAAG GTGCAGGACC CCGTGCTGCC   720
TCAACAGGAG GGTGGGGGAA CAGCTCAACA ATGGCTGATG GGCGCTCCTG GTGTTGATAG   780
AGATGGAACT TGGACTTGGA GGCCTCTCCA CGCTGTCCCA CTGCCCCTGG CCTAGGCGGC   840
AGCCTGCCCT GTGGCCCACC CTGGCCGCTC TGGCTCTGCT GAGCAGCGTC GCAGAGGCCT   900
CCCTGGGCTC CGCGCCCCGC AGCCCTGCCC CCCGCGAAGG CCCCCCGCCT GTCCTGGCGT   960
CCCCCGCCGG CCACCTGCCG GGGGGACGCA CGGCCCGCTG GTGCAGTGGA AGAGCCCGGC  1020
GGCCGCCGCC GCAGCCTTCT CGGCCCGCGC CCCCGCCGCC TGCACCCCCA TCTGCTCTTC  1080
CCCGCGGGGG CCGCGCGGCG CGGGCTGGGG GCCCGGGCAG CCGCGCTCGG GCAGCGGGGG  1140
CGCGGGGCTG CCGCCTGCGC TCGCAGCTGG TGCCGGTGCG CGCGCTCGGC CTGGGCCACC  1200
GCTCCGACGA GCTGGTGCGT TTCCGCTTCT GCAGCGGCTC CTGCCGCCGC GCGCGCTCTC  1260
CACACGACCT CAGCCTGGCC AGCCTACTGG GCGCCGGGGC CCTGCGACCG CCCCCGGGCT  1320
CCCGGCCCGT CAGCCAGCCC TGCTGCCGAC CCACGCGCTA CGAAGCGGTC TCCTTCATGG  1380
ACGTCAACAG CACCTGGAGA ACCGTGGACC GCCTCTCCGC CACCGCCTGC GGCTGCCTGG  1440
GCTGAGGGCT CGCTCCAGGG CTTTGCAGAC TGGACCCTTA CCGGTGGCTC TTCCTGCCTG  1500
GGACCCTCCC GCAGAGTCCC ACTAGCCAGC GGCCTCAGCC AGGGACGAAG GCCTCAAAGC  1560
TGAGAGGCCC CTACCGGTGG GTGATGGATA TCATCCCCGA ACAGGTGAAG GGACAACTGA  1620
CTAGCAGCCC CAGAGCCCTC ACCCTGCGGA TCCCAGCCTA AAAGACACCA GAGACCTCAG  1680
CTATGGAGCC CTTCGGACCC ACTTCTCACA GACTCTGGCA CTGGCCAGGC CTCGAACCTG  1740
GGACCCCTCC TCTGATGAAC ACTACAGTGG CTGAGGCATC AGCCCCCGCC CAGGCCCTGT  1800
AGGGACAGCA TTTGAAGGAC ACATATTGCA GTTGCTTGGT TGAAAGTGCC TGTGCTGGAA  1860
CTGGCCTGTA CTCACTCATG GGAGCTGGCC CC
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Seq ID NO: 277 Protein sequence:
Protein Accession #: NP_003967.1

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1          11         21         31         41         51
|          |          |          |          |          |
MELGLGGLST LSHCPWPRRQ PALWPTLAAL ALLSSVAEAS LGSAPRSPAP REGPPPVLAS    60
PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP RGGRAARAGG PGSRARAAGA   120
RGCRLRSQLV PVRALGLGHR SDELVRFRFC SGSCRRARSP HDLSLASLLG AGALRPPPGS   180
RPVSQPCCRP TRYEAVSFMD VNSTWRTVDR LSATACGCLG
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Seq ID NO: 278 DNA sequence
Nucleic Acid Accession #: NM_057160.1
Coding sequence: 1-714

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1          11         21         31         41         51
|          |          |          |          |          |
ATGCCCGGCC TGATCTCAGC CCGAGGACAG CCCCTCCTTG AGGTCCTTCC TCCCCAAGCC    60
CACCTGGGTG CCCTCTTTCT CCCTGAGGCT CCACTTGGTC TCTCCGCGCA GCCTGCCCTG   120
TGGCCCACCC TGGCCGCTCT GGCTCTGCTG AGCAGCGTCG CAGAGGCCTC CCTGGGCTCC   180
GCGCCCCGCA GCCCTGCCCC CCGCGAAGGC CCCCCGCCTG TCCTGGCGTC CCCCGCCGGC   240
CACCTGCCGG GGGGACGCAC GGCCCGCTGG TGCAGTGGAA GAGCCCGGCG GCCGCCGCCG   300
CAGCCTTCTC GGCCCGCGCC CCCGCCGCCT GCACCCCCAT CTGCTCTTCC CCGCGGGGGC   360
CGCGCGGCGC GGGCTGGGGG CCCGGGCAGC CGCGCTCGGG CAGCGGGGGC GCGGGGCTGC   420
CGCCTGCGCT CGCAGCTGGT GCCGGTGCGC GCGCTCGGCC TGGGCCACCG CTCCGACGAG   480
CTGGTGCGTT TCCGCTTCTG CAGCGGCTCC TGCCGCCGCG CGCGCTCTCC ACACGACCTC   540
AGCCTGGCCA GCCTACTGGG CGCCGGGGCC CTGCGACCGC CCCCGGGCTC CCGGCCCGTC   600
AGCCAGCCCT GCTGCCGACC CACGCGCTAC GAAGCGGTCT CCTTCATGGA CGTCAACAGC   660
ACCTGGAGAA CCGTGGACCG CCTCTCCGCC ACCGCCTGCG GCTGCCTGGG CTGAGGGCTC   720
GCTCCAGGGC TTTGCAGACT GGACCCTTAC CGGTGGCTCT TCCTGCCTGG GACCCTCCCG   780
CAGAGTCCCA CTAGCCAGCG GCCTCAGCCA GGGACGAAGG CCTCAAAGCT GAGAGGCCCC   840
TACCGGTGGG TGATGGATAT CATCCCCGAA CAGGTGAAGG GACAACTGAC TAGCAGCCCC   900
AGAGCCCTCA CCCTGCGGAT CCCAGCCTAA AAGACACCAG AGACCTCAGC TATGGAGCCC   960
TTCGGACCCA CTTCTCACAG ACTCTGGCAC TGGCCAGGCC TCGAACCTGG GACCCCTCCT  1020
CTGATGAACA CTACAGTGGC TGAGGCATCA GCCCCCGCCC AGGCCCTGTA GGGACAGCAT  1080
TTGAAGGACA CATATTGCAG TTGCTTGGTT GAAAGTGCCT GTGCTGGAAC TGGCCTGTAC  1140
TCACTCATGG GAGCTGGCCC C
```

Seq ID NO: 279 Protein sequence:
Protein Accession #: NP_476501.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MPGLISARGQ PLLEVLPPQA HLGALFLPEA PLGLSAQPAL WPTLAALALL SSVAEASLGS    60
APRSPAPREG PPPVLASPAG HLPGGRTARW CSGRARRPPP QPSRPAPPPP APPSALPRGG   120
RAARAGGPGS RARAAGARGC RLRSQLVPVR ALGLGHRSDE LVRFRFCSGS CRRARSPHDL   180
SLASLLGAGA LRPPPGSRPV SQPCCRPTRY EAVSFMDVNS TWRTVDRLSA TACGCLG
```

Seq ID NO: 280 DNA sequence
Nucleic Acid Accession #: NM_057090.1
Coding sequence: 29-715

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1          11         21         31         41         51
|          |          |          |          |          |
CTGATGGGCG CTCCTGGTGT TGATAGAGAT GGAACTTGGA CTTGGAGGCC TCTCCACGCT    60
GTCCCACTGC CCCTGGCCTA GGCGGCAGGC TCCACTTGGT CTCTCCGCGC AGCCTGCCCT   120
GTGGCCCACC CTGGCCGCTC TGGCTCTGCT GAGCAGCGTC GCAGAGGCCT CCCTGGGCTC   180
CGCGCCCCGC AGCCCTGCCC CCCGCGAAGG CCCCCCGCCT GTCCTGGCGT CCCCCGCCGG   240
CCACCTGCCG GGGGGACGCA CGGCCCGCTG GTGCAGTGGA AGAGCCCGGC GGCCGCCGCC   300
GCAGCCTTCT CGGCCCGCGC CCCCGCCGCC TGCACCCCCA TCTGCTCTTC CCCGCGGGGG   360
CCGCGCGGCG CGGGCTGGGG GCCCGGGCAG CCGCGCTCGG GCAGCGGGGG CGCGGGGCTG   420
CCGCCTGCGC TCGCAGCTGG TGCCGGTGCG CGCGCTCGGC CTGGGCCACC GCTCCGACGA   480
GCTGGTGCGT TTCCGCTTCT GCAGCGGCTC CTGCCGCCGC GCGCGCTCTC CACACGACCT   540
CAGCCTGGCC AGCCTACTGG GCGCCGGGGC CCTGCGACCG CCCCCGGGCT CCCGGCCCGT   600
CAGCCAGCCC TGCTGCCGAC CCACGCGCTA CGAAGCGGTC TCCTTCATGG ACGTCAACAG   660
```

```
CACCTGGAGA ACCGTGGACC GCCTCTCCGC CACCGCCTGC GGCTGCCTGG GCTGAGGGCT   720
CGCTCCAGGG CTTTGCAGAC TGGACCCTTA CCGGTGGCTC TTCCTGCCTG GGACCCTCCC   780
GCAGAGTCCC ACTAGCCAGC GGCCTCAGCC AGGGACGAAG GCCTCAAAGC TGAGAGGCCC   840
CTACCGGTGG GTGATGGATA TCATCCCCGA ACAGGTGAAG GGACAACTGA CTAGCAGCCC   900
CAGAGCCCTC ACCCTGCGGA TCCCAGCCTA AAAGACACCA GAGACCTCAG CTATGGAGCC   960
CTTCGGACCC ACTTCTCACA GACTCTGGCA CTGGCCAGGC CTCGAACCTG GGACCCCTCC  1020
TCTGATGAAC ACTACAGTGG CTGAGGCATC AGCCCCCGCC CAGGCCCTGT AGGGACAGCA  1080
TTTGAAGGAC ACATATTGCA GTTGCTTGGT TGAAAGTGCC TGTGCTGGAA CTGGCCTGTA  1140
CTCACTCATG GGAGCTGGCC CC
```

Seq ID NO: 281 Protein sequence:
Protein Accession #: NP_476431.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MELGLGGLST LSHCPWPRRQ APLGLSAQPA LWPTLAALAL LSSVAEASLG SAPRSPAPRE    60
GPPPVLASPA GHLPGGRTAR WCSGRARRPP PQPSRPAPPP PAPPSALPRG GRAARAGGPG   120
SRARAAGARG CRLRSQLVPV RALGLGHRSD ELVRFRFCSG SCRRARSPHD LSLASLLGAG   180
ALRPPPGSRP VSQPCCRPTR YEAVSFMDVN STWRTVDRLS ATACGCLG
```

Seq ID NO: 282 DNA sequence
Nucleic Acid Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
CTACTGCACC TGCCCTCTGT TTCCTTTGGA AATCTCTTAC CTTTCATTAG GGTTTCTTTC    60
ATAGCAATTT CCTTTGGTTT TTAAGACTTC TACATTGCTT TTTCTTTTAT TATCTGTGCT   120
CCGTGAACCT TATGAATGCT GCTTAAAAAT AATGTCAAAA TATGTTTTAG CTGCCTACTC   180
AGGTAACGTT TTCTTTTGCT CTCATCTTGG TTTCCATATA CTATTTTTGG TTTTTTGTGA   240
GATCTAATCA ATGATCTAGT CAGAAGCTAC TTCACTGGCT AACAGTGATC ATGTTCATGT   300
GCTAAAAATG AACTTGAAAC ACGGAAGTAG TGGTTGGTCC AGTTTGAAAG CTCTTATTAG   360
TATTCTTCAT CCTGGCTGTA ATAATAGCCA TTATTTGTTA TGCCTTTGTT ATGTAGCAGA   420
CACTCTTAAG GATTTTATGT GTATTATTCA AATTGCTATT ACTGTTCTTT TTATAGTTGA   480
GAATCTCAGG ATACCTACAT TTATCACTTT TTCAATATAT ATGTATTTCT TATT
```

Seq ID NO: 283 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 564-1481

```
1           11          21          31          41          51
|           |           |           |           |           |
GAGACTTTTA ATCATCTATC CCTTGTGCTT TACGCAGACC CTACAATACA CTAGAGGCTT    60
CAAAGAGGTC AAAAATTCAC ATGTGTAGAC AAATTAGGTC CCTTAAGATG CCAGGCAAAC   120
GAAGTGCTAC CAAAACACGC AATGACTGTC CTAAAAGTGC GTTCTGGGAT ACACCTGTAA   180
ACTTGGATCA AGTTCCCTCC CCTCTCCTCA AAATATATCG ACTTGTGCTG AAAGAAATCA   240
CGACCGATGC TCACAATTCT GACCTCGTAA TTATATAGGG GGTGGTTTTG GTTTCTGCGT   300
CTTTCCCTGA TTCAGTGGCA GGTAACATAT TTCATGTACA AAATGAACTG CAACACCACG   360
GCAAACAAGG GACAGGCCCT CAAAGTTGTC GGTAGGGAGC CAGGACCCCG CCAGTGGCGT   420
GGGGAGACAC CGTACTAAAC AAGCTTGCAA ACAGCAGGCA CCTTCCTGCC ACTGAGGAGG   480
AAGGGCTGGC TAAGGGAGGC CGGGGCGGAG GAAGCCAAGC TCTGCAGGCC CTGACAAAGT   540
CCTCCCGGCC TCCACGCGTC GCCATGGCAA CGCGGGGTCT GTGCTGGCCG GGATTGGCCG   600
GCCTGGCGCG CGCAGGGCCC GCTGGGAAAG CGCGTCCCCG CCGCGGCTCC GCCAGTTTGA   660
ACTTGGCGGG CCAGATGTGG GCGGCGGGGC GCTGGGGGCC TACTTTTCCC TCTTCCTACG   720
CCGGTTTCTC TGCTGACTGC AGACCCAGGT CTCGGCCCTC CTCGGACTCC TGCTCAGTCC   780
CTATGACGGG CGCACGTGGG CAGGGGCTGG AGGTGGTGCG CTCGCCGTCG CCGCCGCTGC   840
CGCTGAGCTG CAGCAATTCC ACCAGGTCGC TGTTGTCTCC CCTTGGCCAC CAGAGCTTCC   900
AGTTTGACGA GGACGACGGT GACGGGGAGG ATGAGGAAGA CGTGGATGAT GAGGAAGACG   960
TGGATGAAGA TGCCCATGAT TCAGAGGCCA AAGTGGCGAG CCTGAGAGGA ATGGAGTTAC  1020
AGGGGTGCGC CAGCACTCAG GTTGAATCAG AAAATAACCA AGAAGAACAG AAACAGGTGC  1080
GCTTACCAGA AAGCCGCCTG ACACCATGGG AGGTGTGGTT TATTGGCAAA GAAAAAGAAG  1140
AACGTGACCG GCTGCAACTG AAAGCTCTAG AGGAATTAAA TCAACAACTA GAAAAAAGAA  1200
AAGAAATGGA AGAACGTGAA AAAAGAAAGA TAATTGCTGA AGAAAAGCAC AAGGAATGGG  1260
TTCAGAAAAA GAATGAGCAA AAAAGAAAAG AAAGAGAACA AAAAATTAAT AAAGAAATGG  1320
AGGAAAAAGC AGCAAAGGAA CTGGAGAAAG AATACTTGCA AGAAAAAGCA AAAGAAAAAT  1380
ATCAAGAATG GTTAAAGAAA AAAAATGCTG AAGAATGTGA GAGGAAGAAG AAAGAAAAGA  1440
AAAACAACAG CAAGCTGAAA TACAGGAGAA AAAGGAAATA GCAGAAAAAA AGTTTCAAGA  1500
ATGGTTGGAA AATGCGAAAC ATAAACCTCG TCCAGCTGCA AAGAGCTATG GTTATGCCAA  1560
TGGAAAACTT ACAGGTTTTT ACAGTGGAAA TTCCTATCCA GAACCAGCCT TTTATAATCC  1620
AATTCCGTGG AAACCAATTC ATATGCCACC TCCCAAAGAA GCTAAGGATC TATCAGGAAG  1680
GAAGAGTAAA AGACCTGTGA TAAGTCAGCC ACACAAGTCA TCATCTCTGG TAATTCATAA  1740
AGCCAGGAGC AATCTTTGCC TTGGAACTCT GTGCAGAATA CAAAGATAGC GTATGTGGAA  1800
AATAACATGC TTTTATCTGG AGCTATTTAA TTTAAAAATC AGAAATTGTT TTTTACTGCT  1860
CAGTCAATAA CTCAACACTT AATGTGATTA TTGACAAATA GCAATTTTTG CATTTGTATA  1920
TGGAGTCCTT AGAGTTGAGG AAGATATTTT CTGGATTTTG GTTTTTATAA ACTTTTTAAG  1980
GTTGATCTTG GCATGTTGTT TTGCAGAATA AGTGGCTGAA TATGTAAGAA TTGTGTTTGT  2040
ATTTAGCTTG TATTAAAAGT ACACTGTAAT ACCAATAAAA CTAACAATTT TTCTTG
```

Seq ID NO: 284 Protein sequence:
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MATRGLCWPG LAGLARAGPA GKARPRRGSA SLNLAGQMWA AGRWGPTFPS SYAGFSADCR    60
PRSRPSSDSC SVPMTGARGQ GLEVVRSPSP PLPLSCSNST RSLLSPLGHQ SFQFDEDDGD   120
GEDEEDVDDE EDVDEDAHDS EAKVASLRGM ELQGCASTQV ESENNQEEQK QVRLPESRLT   180
PWEVWFIGKE KEERDRLQLK ALEELNQQLE KRKEMEEREK RKIIAEEKHK EWVQKKNEQK   240
RKEREQKINK EMEEKAAKEL EKEYLQEKAK EKYQEWLKKK NAEECERKKK EKKNNSKLKY   300
```

RRKRK

Seq ID NO: 285 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1-1746

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGCCACTGA AGCATTATCT CCTTTTGCTG GTGGGCTGCC AAGCCTGGGG TGCAGGGTTG    60
GCCTACCATG GCTGCCCTAG CGAGTGTACC TGCTCCAGGG CCTCCCAGGT GGAGTGCACC   120
GGGGCACGCA TTGTGGCGGT GCCCACCCCT CTGCCCTGGA ACGCCATGAG CCTGCAGATC   180
CTCAACACGC ACATCACTGA ACTCAATGAG TCCCCGTTCC TCAATATCTC AGCCCTCATC   240
GCCCTGAGGA TTGAGAAGAA TGAGCTGTCG CGCATCACGC CTGGGGCCTT CCGAAACCTG   300
GGCTCGCTGC GCTATCTCAG CCTCGCCAAC AACAAGCTGC AGGTTCTGCC CATCGGCCTC   360
TTCCAGGGCC TGGACAGCCT TGAGTCTCTC CTTCTGTCCA GTAACCAGCT GTTGCAGATC   420
CAGCCGGCCC ACTTCTCCCA GTGCAGCAAC CTCAAGGAGC TGCAGTTGCA CGGCAACCAC   480
CTGGAATACA TCCCTGACGG AGCCTTCGAC CACCTGGTAG GACTCACGAA GCTCAATCTG   540
GGCAAGAATA GCCTCACCCA CATCTCACCC AGGGTCTTCC AGCACCTGGG CAATCTCCAG   600
GTCCTCCGGC TGTATGAGAA CAGGCTCACG GATATCCCCA TGGGCACTTT TGATGGGCTT   660
GTTAACCTGC AGGAACTGGC TCTACAGCAG AACCAGATTG GACTGCTCTC CCCTGGTCTC   720
TTCCACAACA ACCACAACCT CCAGAGACTC TACCTGTCCA ACAACCACAT CTCCCAGCTG   780
CCACCCAGCA TCTTCATGCA GCTGCCCCAG CTCAACCGTC TTACTCTCTT TGGGAATTCC   840
CTGAAGGAGC TCTCTCTGGG GATCTTCGGG CCCATGCCCA ACCTGCGGGA GCTTTGGCTC   900
TATGACAACC ACATCTCTTC TCTACCCGAC AATGTCTTCA GCAACCTCCG CCAGTTGCAG   960
GTCCTGATTC TTAGCCGCAA TCAGATCAGC TTCATCTCCC CGGGTGCCTT CAACGGGCTA  1020
ACGGAGCTTC GGGAGCTGTC CCTCCACACC AACGCACTGC AGGACCTGGA CGGGAATGTC  1080
TTCCGCATGT TGGCCAACCT GCAGAACATC TCCCTGCAGA ACAATCGCCT CAGACAGCTC  1140
CCAGGGAATA TCTTCGCCAA CGTCAATGGC CTCATGGCCA TCCAGCTGCA GAACAACCAG  1200
CTGGAGAACT TGCCCCTCGG CATCTTCGAT CACCTGGGGA AACTGTGTGA GCTGCGGCTG  1260
TATGACAATC CCTGGAGGTG TGACTCAGAC ATCCTTCCGC TCCGCAACTG GCTCCTGCTC  1320
AACCAGCCTA GGTTAGGGAC GGACACTGTA CCTGTGTGTT TCAGCCCAGC CAATGTCCGA  1380
GGCCAGTCCC TCATTATCAT CAATGTCAAC GTTGCTGTTC CAAGCGTCCA TGTCCCTGAG  1440
GTGCCTAGTT ACCCAGAAAC ACCATGGTAC CCAGACACAC CCAGTTACCC TGACACCACA  1500
TCCGTCTCTT CTACCACTGA GCTAACCAGC CCTGTGGAAG ACTACACTGA TCTGACTACC  1560
ATTCAGGTCA CTGATGACCG CAGCGTTTGG GGCATGACCC AGGCCCAGAG CGGGCTGGCC  1620
ATTGCCGCCA TTGTAATTGG CATTGTCGCC CTGGCCTGCT CCCTGGCTGC CTGCGTCGGC  1680
TGTTGCTGCT GCAAGAAGAG GAGCCAAGCT GTCCTGATGC AGATGAAGGC ACCCAATGAG  1740
TGTTAAAGAG GCAGGCTGGA GCAGGGCTGG GGAATGATGG GACTGGAGGA CCTGGGAATT  1800
TCATCTTTCT GCCTCCACCC CTGGGTCCAT GGAGCTTTCC CGTGATTGCT CTTTCTGGCC  1860
CTAGATAAAG GTGTGCCTAC CTCTTCCTGA CTTGCCTGAT TCTCCCGTAG AGAAGCAGGT  1920
CGTGCCGGAC CTTCCTACAA TCAGGAAGAT AGATCCAACT GGCCATGGCA AAAGCCCTGG  1980
GGATTTCCGA TTCATACCCC TGGGCTTCCT TCGAGAGGGC TCTTCCTCCA AATCCTCCCC  2040
ACCTGTCCTC CAAGAACAGC CTTCCCTGCG CCCAGGCCCC CTCCGGGCCT CTGTAGACTC  2100
AGTTAGTCCA CAGCCTGCTC ACTTCGTGGG AATAGTTCTC CGCTGAGATA GCCCCTCTCG  2160
CCTAAGTATT ATGTAAGTTG ATTTCCCTTC TTTTGTTTCT CTTGTTTGTG CTATGGCTTG  2220
ACCCAGCATG TCCCCTCAAA TGAAAGTTCT CCCCTTGATT TTCTGCTCCT GAAGGCAGGG  2280
TGAGTTCTCT CCTCAAAGAA GACTTCAAAC CATTTAACTG GTTTCTTAAG AGCCGTCAAT  2340
CAGCCTGGTT TTGGGGATGC TATGAAAGAG AGAAGGAAAA TCATGCCGCT CAGTTCCTGG  2400
AGACAGAAGA GCCGTCATCA GTGTCTCACT TGTGATTTTT ATCTGGAAAA GGAAGAAACA  2460
CCCCAGCACA GCAAGCTCAG CCTTTTAGAG AAGGATATTT CCAAACTGCA AACTTTGCTT  2520
TGAAAAGTTT AGCCCTTTAA GGAATGAAAT CATGTAGAAT TTTGGACTTC TAAAAACATT  2580
AAAATCAGCT TATTAATACG GGATAGAGAA AGAAATCTGG TGCCTGGGGG TCCCTGTGTT  2640
CACCCCTAGA GTTTGTTTTA AAATTTTTAA TTGAAGCATG TGAAGTGTAC STGCAGAAAA  2700
GTGGGAACAT GATAGTGTAT GGCTTGGTGG ATTTTCACAA ACTGAACATA CCTGTGTAAT  2760
CAGCATCTAG ACCCAGACCC AGAGCATCAC AAATATCCCC CATCCTGGGC TTTTCCCAGA  2820
GGAGATGGGG GCTTCTGAAG ATGGACTTAC CTGGGACCTG CCCCCCATGA GCCAGGACGG  2880
TCCCCCCACA GTCAGCCTGT GCAAAGGCCC CGTGGCCAGG GGTGGAGGAG AATATGTGGG  2940
TGTGGACAGG ATGGGAGACT GTGGCCTGAA CAGGAGATTT TATTATATCT GGAGACCCTG  3000
AGAGACCCTG AGACCTGGGG CACCATGGCT GGCCAGGTCA GAAGCATCCT GACTGCAGAG  3060
GTCCGTGCAG CCACACCCTC TTCCCTGCCA GCAAGTTGTC TGCGGCTCAT CGGAGGCCCC  3120
TCCGCCTGGA GCCTTCTATG GACGTGATAT GCCTGTATCT GTTTTTAATT TTCATTCTTC  3180
ACTTAGGGGA AGTGAAATCG CTCAGAGATG AGATCCTTTA ATTGAAAACG AAGTGTAACG  3240
GAATCTAGTG TCTTTCTAAT GTGGTAAAAT TCTCCATCAA CATCACAGTC AGCTGGCAGC  3300
TGAACTTCAG AATCTCACTT ACAGCAGGCG ACACGGGGGT ACACCGATGG GTCACACTGG  3360
GTCTGGGGGC TCCCTGGAGC TCCTCCTGCG TGTGGTCTGG TTAGGAGTTG AGTTGTTTGC  3420
TCCAGGGTTA TTCTCCTCCT CGAGTCACAG TCACACGAAT ACCTGCCTTC TCTGGCTTTC  3480
CTGCTATACA CATATTCACA TGGCGCTCAA GAAGTTAGGC TCATGGCAAC GTGTGTCTTT  3540
CTCTGGACAA CTGGCCCAGT TTACAGTGAA ATGGAGAATT TCAGGTCTCC ACGTCTGCCC  3600
AGGAAAGAAC TTCAGCTGAC TCCACGGGGA TCTGGAAATC CACGACCAAT CCCGATCGGC  3660
TCTTATTAGC TCCCCGCTCC ACAAGACACC TGTGCTTTGG AAATCCACCA CCAATCCCGA  3720
TCGGCTCTTA TTAGCTCCCC GCTCCACAAG ACACCTGTGA TCTGGAAATC TACCACCAAT  3780
CCCGATCGGC TCTTATTAGC TCCCCGCTCC ACAAGACACC TGTGACATCC TCCAGGGCCA  3840
CAGGAGCACG TGCTGACCAG TTTTCCCTTC CAGTTCCTGC ACAAAAAGTG TCCAGAGGGC  3900
TGTTTGCAAA CACTAGTGCA CTTTGTAGCT TTTCACCCTC TGTCCCAGGG AATCTAGGAG  3960
AGATGAGGCC CGTCAGAGTC AAGAGATGTC ATCCCCCCAG GGTCTCCAAG GCATTTCCAC  4020
ACTATTGGTG GCACCTGGAG GACATGCACC AAGGCTTGCC AGAGCCAACA GGAAGTGAGC  4080
CCAGAGCATG GCACATGAGC ATCACCCGCT GATGGTGGCC TGCTGTGCCT GGTGCCAACA  4140
GGGGCATCCC GGCCCGTACC CCTCCAGACA GGAAGCATGG GTTTGCCCAC AGACCTGTCG  4200
GGTGCTCCTG TGAGTGGCCT CCAGATGTCT TTGTGCATAG GCACAAGTGG GCCAGGGCTG  4260
GAGGGAGGTG GGAAACCTCA TCATCCGGTG GGCCCTGCCA ATCTTAACCC AGAACCCTTA  4320
GGTATTCCTG GCAGTAGCCA TGACATTGGA GCACCTTCCT CTCCAGCCAG AGGCTGACCT  4380
GAGGGCCACT GTCCTCAGAT GACACCACCC AGGAGCACCC TAGGTGAGGG GTGAGGGCCC  4440
CCTTATGTGA ACCTCTTGCC TCTTCCTTTC TCCCATCAGA GTGGTTGGAT GGAGCCATTG  4500
GCCTCCTTTT CTTCAGCGGG CCCTTCAACC TCTCTGCACC ATGTTGTCTG GCTGAGGAGC  4560
TACTAGAAAA GCTGAGTGGA GTCTCCTTTC CAACAGGATG ATGCATTTGC TCAATTCTCA  4620
GGGCTGGAAT GAGCCGGCTG GTCCCCCAGA AAGCTGGAGT GGGGTACAGA GTTCAGTTTT  4680
CCTCTCTGTT TACAGCTCCT TGACAGTCCC ACGCCCATCT GGAGTGGGAG CTGGGAGTTA  4740
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GTGTTGGAGA AGAAACAACA AAAGCCAATT AGAACCACTA TTTTTAAAAA GTGCTTACTG  4800
TGCACAGATA CTCTTCAAGC ACTGGACGTG GATTCTCTCT CTAGCCCTCA GCACCCCTGC  4860
GGTAGGAGTG CCGCCTCTAC CCACTTGTGA TGGGGTACAG AGGCACTTGC TCTTCTGCAT  4920
GGTGTTCAAT AGGCTGGGAG TTTTATTTAT CTCTTCAAAC TTTGTACAAG AGCTCATGGC  4980
TTGTCTTGGG CTTTCGTCAT TAAACCAAAG GAAATGGAAG CCATTCCCCT GTTGCTCTCC  5040
TTAGTCTTGG TCATCAGAAC CTCACTTGGT ACCATATAGA TCAAAAGCTT TGTAACCACA  5100
GGAAAAAATA AACTCTTCCA TCCCTTAAAG AATAGAATAG TTTGTCCCTC TCATGGGAAT  5160
TGGGCTGTAT GTATATTGTT CTTCCTCCTT AGAATTTAGA GATACAAGAG TTCTACTTAG  5220
AACTTTTCAT GGACACAATT TCCACAACCT TTCAGATGCT GATGTAGAGC TATTGGGAAA  5280
GAACTTCCAA ACTCAGGAAG TTTGCAGAGA GCAGACAGCT AGAGATAACT CGGGACCCAG  5340
AGTTGGTCGA CAGATGTTAG ATGTATCCTA GCTTTTAGCC ATAAACCACT CAAAGATTCA  5400
GCCCCCAGAT CCCACAGTCA GAACTGAATC TGCGTTGTTG GGAAGCCAGC AGTGGCCTTG  5460
GGAAGGAAGC CATGGCTGTG GTTCAGAGAG GGTGGGCTGG CAAGCCACTT CCGGGGAAAA  5520
CTCCTTCCGC CCCAGGTTTC TTCTTCTCTT AAGGAGAGAT TGTTCTCACC AACCCGCTGC  5580
CTTCATGCTG CCTTCAAAGC TAGATCATGT TTGCCTTGCT TAGAGAATTA CTGCAAATCA  5640
GCCCCAGTGC TTGGCGATGC ATTTACAGAT TTCTAGGCCC TCAGGGTTTT GTAGAGTGTG  5700
AGCCCTGGTG GGCAGGGTTG GGGGGTCTGT CTTCTGCTGG ATGCTGCTTG TAATCCATTT  5760
GGTGTACAGA ATCAACAATA AATAATATAC ATGTAT
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Seq ID NO: 286 Protein sequence:
Protein Accession #: NP_570843.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MPLKHYLLLL VGCQAWGAGL AYHGCPSECT CSRASQVECT GARIVAVPTP LPWNAMSLQI    60
LNTHITELNE SPFLNISALI ALRIEKNELS RITPGAFRNL GSLRYLSLAN NKLQVLPIGL   120
FQGLDSLESL LLSSNQLLQI QPAHFSQCSN LKELQLHGNH LEYIPDGAFD HLVGLTKLNL   180
GKNSLTHISP RVFQHLGNLQ VLRLYENRLT DIPMGTFDGL VNLQELALQQ NQIGLLSPGL   240
FHNNHNLQRL YLSNNHISQL PPSIFMQLPQ LNRLTLFGNS LKELSLGIFG PMPNLRELWL   300
YDNHISSLPD NVFSNLRQLQ VLILSRNQIS FISPGAFNGL TELRELSLHT NALQDLDGNV   360
FRMLANLQNI SLQNNRLRQL PGNIFANVNG LMAIQLQNNQ LENLPLGIFD HLGKLCELRL   420
YDNPWRCDSD ILPLRNWLLL NQPRLGTDTV PVCFSPANVR GQSLIIINVN VAVPSVHVPE   480
VPSYPETPWY PDTPSYPDTT SVSSTTELTS PVEDYTDLTT IQVTDDRSVW GMTQAQSGLA   540
IAAIVIGIVA LACSLAACVG CCCCKKRSQA VLMQMKAPNE C
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Seq ID NO: 287 DNA sequence
Nucleic Acid Accession #: NM_002362
Coding sequence: 1..954

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1          11         21         31         41         51
|          |          |          |          |          |
ATGTCTTCTG AGCAGAAGAG TCAGCACTGC AAGCCTGAGG AAGGCGTTGA GGCCCAAGAA    60
GAGGCCCTGG GCCTGGTGGG TGCACAGGCT CCTACTACTG AGGAGCAGGA GGCTGCTGTC   120
TCCTCCTCCT CTCCTCTGGT CCCTGGCACC CTGGAGGAAG TGCCTGCTGC TGAGTCAGCA   180
GGTCCTCCCC AGAGTCCTCA GGGAGCCTCT GCCTTACCCA CTACCATCAG CTTCACTTGC   240
TGGAGGCAAC CCAATGAGGG TTCCAGCAGC CAAGAAGAGG AGGGGCCAAG CACCTCGCCT   300
GACGCAGAGT CCTTGTTCCG AGAAGCACTC AGTAACAAGG TGGATGAGTT GGCTCATTTT   360
CTGCTCCGCA AGTATCGAGC CAAGGAGCTG GTCACAAAGG CAGAAATGCT GGAGAGAGTC   420
ATCAAAAATT ACAAGCGCTG CTTTCCTGTG ATCTTCGGCA AAGCCTCCGA GTCCCTGAAG   480
ATGATCTTTG GCATTGACGT GAAGGAAGTG GACCCCGCCA GCAACACCTA CACCCTTGTC   540
ACCTGCCTGG GCCTTTCCTA TGATGGCCTG CTGGGTAATA ATCAGATCTT TCCCAAGACA   600
GGCCTTCTGA TAATCGTCCT GGGCACAATT GCAATGGAGG GCGACAGCGC CTCTGAGGAG   660
GAAATCTGGG AGGAGCTGGG TGTGATGGGG GTGTATGATG GGAGGGAGCA CACTGTCTAT   720
GGGGAGCCCA GGAAACTGCT CACCCAAGAT TGGGTGCAGG AAAACTACCT GGAGTACCGG   780
CAGGTACCCG GCAGTAATCC TGCGCGCTAT GAGTTCCTGT GGGGTCCAAG GGCTCTGGCT   840
GAAACCAGCT ATGTGAAAGT CCTGGAGCAT GTGGTCAGGG TCAATGCAAG AGTTCGCATT   900
GCCTACCCAT CCCTGCGTGA AGCAGCTTTG TTAGAGGAGG AAGAGGGAGT CTGA
```

Seq ID NO: 288 Protein sequence:
Protein Accession #: NP_002353.1

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1          11         21         31         41         51
|          |          |          |          |          |
MSSEQKSQHC KPEEGVEAQE EALGLVGAQA PTTEEQEAAV SSSSPLVPGT LEEVPAAESA    60
GPPQSPQGAS ALPTTISFTC WRQPNEGSSS QEEEGPSTSP DAESLFREAL SNKVDELAHF   120
LLRKYRAKEL VTKAEMLERV IKNYKRCFPV IFGKASESLK MIFGIDVKEV DPASNTYTLV   180
TCLGLSYDGL LGNNQIFPKT GLLIIVLGTI AMEGDSASEE EIWEELGVMG VYDGREHTVY   240
GEPRKLLTQD WVQENYLEYR QVPGSNPARY EFLWGPRALA ETSYVKVLEH VVRVNARVRI   300
AYPSLREAAL LEEEEGV
```

Seq ID NO: 289 DNA sequence
Nucleic Acid Accession #: NM_002362
Coding sequence: 46..1344

```
1          11         21         31         41         51
|          |          |          |          |          |
CGGCGGCCGC GCCCTGGTTG GGTCCCCACT GCTCTCGGGG GCGCCATGGA CGAGGCCGTG    60
GGCGACCTGA AGCAGGCGCT TCCCTGTGTG GCCGAGTCGC CAACGGTCCA CGTGGAGGTG   120
CATCAGCGCG GCAGCAGCAC TGCAAAGAAA GAAGACATAA ACCTGAGTGT TAGAAAGCTA   180
CTCAACAGAC ATAATATTGT GTTTGGTGAT TACACATGGA CTGAGTTTGA TGAACCTTTT   240
TTGACCAGAA ATGTGCAGTC TGTGTCTATT ATTGACACAG AATTAAAGGT TAAAGACTCA   300
CAGCCCATCG ATTTGAGTGC ATGCACTGTT GCACTTCACA TTTTCCAGCT GAATGAAGAT   360
GGCCCCAGCA GTGAAAATCT GGAGGAAGAG ACAGAAAACA TAATTGCAGC AAATCACTGG   420
GTTCTACCTG CAGCTGAATT CCATGGGCTT TGGGACAGCT TGGTATACGA TGTGGAAGTC   480
AAATCCCATC TCCTCGATTA TGTGATGACA ACTTTACTGT TTTCAGACAA GAACGTCAAC   540
```

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AGCAACCTCA TCACCTGGAA CCGGGTGGTG CTGCTCCACG GTCCTCCTGG CACTGGAAAA   600
ACATCCCTGT GTAAAGCGTT AGCCCAGAAA TTGACAATTA GACTTTCAAG CAGGTACCGA   660
TATGGCCAAT TAATTGAAAT AAACAGCCAC AGCCTCTTTT CTAAGTGGTT TTCGGAAAGT   720
GGCAAGCTGG TAACCAAGAT GTTTCAGAAG ATTCAGGATT TGATTGATGA TAAAGACGCC   780
CTGGTGTTCG TGCTGATTGA TGAGGTGGAG AGTCTCACAG CCGCCCGAAA TGCCTGCAGG   840
GCGGGCACCG AGCCATCAGA TGCCATCCGC GTGGTCAATG CTGTCTTGAC CCAAATTGAT   900
CAGATTAAAA GGCATTCCAA TGTTGTGATT CTGACCACTT CTAACATCAC CGAGAAGATC   960
GACGTGGCCT TCGTGGACAG GGCTGACATC AAGCAGTACA TTGGGCCACC CTCTGCAGCA  1020
GCCATCTTCA AAATCTACCT CTCTTGTTTG GAAGAACTGA TGAAGTGTCA GATCATATAC  1080
CCTCGCCAGC AGCTGCTGAC CCTCCGAGAG CTAGAGATGA TTGGCTTCAT TGAAAACAAC  1140
GTGTCAAAAT TGAGCCTTCT TTTGAATGAC ATTTCAAGGA AGAGCGAGGG CCTCAGCGGC  1200
CGGGTCCTGA GAAAACTCCC CTTTCTGGCT CATGCGCTGT ATGTCCAGGC CCCCACCGTC  1260
ACCATAGAGG GGTTCCTCCA GGCCCTGTCT CTGGCAGTGG ACAAGCAGTT TGAAGAGAGA  1320
AAGAAGCTTG CAGCTTACAT CTGATCCTGG GCTTCCCCAT CTGGTGCTTT TCCCATGGAG  1380
AACACACAAC CAGTAAGTGA GGTTGCCCCA CACAGCCGTC TCCCAGGGAA TCCCTTCTGC  1440
AAACCAAACG TTACTTAGAC TGCAAGCTAG AAAGCCACCA AGGCCAGGCT TTGTTAAAAG  1500
AAGTGTATTC TATTTATGTT GTTTTAAAAT GCATACTGAG AGACAAACAT CTTGTCATTT  1560
TCACTGTTTG TAAAAGATAA TTCAGATTGT TTGTCTCCTT GTGAAGAACC ATCGAAACCT  1620
GTTTGTTCCC AGCCCACCCC CAGTGGATGG GATGCATAAT GCCAGCAAGT TTTGTTTAAC  1680
AGCAAAAAAG GAAGATTAAT GCAGGTGTTA TAGAAGCCAG AAGAGAAACT GTGTCACCCT  1740
AAAGAAGCAT ATAATCATAG CATTAAAAAT GCACACATTA CTCCAGGTGG AAGGTGGCAA  1800
TTGCTTTCTG ATATCAGCTC GTTTGATTTA GTGCAAAAAT GTTTTCAAGA CTATTTAATG  1860
GATGTAAAAA AGCCTATTTC TACATTATAC CAACTGAGAA AAAAATGGTC GGTAAAGTGT  1920
TCTTTCATAA TAAATAATCA AGACATGGTC CCATTTGCAG GAAAAGTGCA GACTCTGAGT  1980
GTTCCAGGGA AACACATGCT GGACATCCCT TGTAACCCGG TATGGGCGCC CCTGCATTGC  2040
TGGGATGTTT CTGCCCACGG TTTTGTTTGT GCAATAACGT TATCACATTT CTAATGAGGA  2100
TTCACATTAA TATAATATAA AATAAATAGG TCAGTTACTG GTCTCTTTCT GCCGAATGTT  2160
ATGTTTTGCT TTTATCTCAC AGTAAAATAA ATATAATTAA AAA
```

Seq ID NO: 290 Protein sequence:
Protein Accession #: NP_004228

```
1           11          21          31          41          51
|           |           |           |           |           |
MDEAVGDLKQ ALPCVAESPT VHVEVHQRGS STAKKEDINL SVRKLLNRHN IVFGDYTWTE    60
FDEPFLTRNV QSVSIIDTEL KVKDSQPIDL SACTVALHIF QLNEDGPSSE NLEEETENII   120
AANHWVLPAA EFHGLWDSLV YDVEVKSHLL DYVMTTLLFS DKNVNSNLIT WNRVVLLHGP   180
PGTGKTSLCK ALAQKLTIRL SSRYRYGQLI EINSHSLFSK WFSESGKLVT KMFQKIQDLI   240
DDKDALVFVL IDEVESLTAA RNACRAGTEP SDAIRVVNAV LTQIDQIKRH SNVVILTTSN   300
ITEKIDVAFV DRADIKQYIG PPSAAAIFKI YLSCLEELMK CQIIYPRQQL LTLRELEMIG   360
FIENNVSKLS LLLNDISRKS EGLSGRVLRK LPFLAHALYV QAPTVTIEGF LQALSLAVDK   420
QFEERKKLAA YI
```

Seq ID NO: 291 DNA sequence
Nucleic Acid Accession #: NM_002658.1
Coding sequence: 77-1372

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1           11          21          31          41          51
|           |           |           |           |           |
GTCCCCGCAG CGCCGTCGCG CCCTCCTGCC GCAGGCCACC GAGGCCGCCG CCGTCTAGCG    60
CCCCGACCTC GCCACCATGA GAGCCCTGCT GGCGCGCCTG CTTCTCTGCG TCCTGGTCGT   120
GAGCGACTCC AAAGGCAGCA ATGAACTTCA TCAAGTTCCA TCGAACTGTG ACTGTCTAAA   180
TGGAGGAACA TGTGTGTCCA ACAAGTACTT CTCCAACATT CACTGGTGCA ACTGCCCAAA   240
GAAATTCGGA GGGCAGCACT GTGAAATAGA TAAGTCAAAA ACCTGCTATG AGGGGAATGG   300
TCACTTTTAC CGAGGAAAGG CCAGCACTGA CACCATGGGC CGGCCCTGCC TGCCCTGGAA   360
CTCTGCCACT GTCCTTCAGC AAACGTACCA TGCCCACAGA TCTGATGCTC TTCAGCTGGG   420
CCTGGGGAAA CATAATTACT GCAGGAACCC AGACAACCGG AGGCGACCCT GGTGCTATGT   480
GCAGGTGGGC CTAAAGCCGC TTGTCCAAGA GTGCATGGTG CATGACTGCG CAGATGGAAA   540
AAAGCCCTCC TCTCCTCCAG AAGAATTAAA ATTTCAGTGT GGCCAAAAGA CTCTGAGGCC   600
CCGCTTTAAG ATTATTGGGG GAGAATTCAC CACCATCGAG AACCAGCCCT GGTTTGCGGC   660
CATCTACAGG AGGCACCGGG GGGGCTCTGT CACCTACGTG TGTGGAGGCA GCCTCATCAG   720
CCCTTGCTGG GTGATCAGCG CCACACACTG CTTCATTGAT TACCCAAAGA AGGAGGACTA   780
CATCGTCTAC CTGGGTCGCT CAAGGCTTAA CTCCAACACG CAAGGGGAGA TGAAGTTTGA   840
GGTGGAAAAC CTCATCCTAC ACAAGGACTA CAGCGCTGAC ACGCTTGCTC ACCACAACGA   900
CATTGCCTTG CTGAAGATCC GTTCCAAGGA GGGCAGGTGT GCGCAGCCAT CCCGGACTAT   960
ACAGACCATC TGCCTGCCCT CGATGTATAA CGATCCCCAG TTTGGCACAA GCTGTGAGAT  1020
CACTGGCTTT GGAAAAGAGA ATTCTACCGA CTATCTCTAT CCGGAGCAGC TGAAAATGAC  1080
TGTTGTGAAG CTGATTTCCC ACCGGGAGTG TCAGCAGCCC CACTACTACG GCTCTGAAGT  1140
CACCACCAAA ATGCTATGTG CTGCTGACCC CCAATGGAAA ACAGATTCCT GCCAGGGAGA  1200
CTCAGGGGGA CCCCTCGTCT GTTCCCTCCA AGGCCGCATG ACTTTGACTG GAATTGTGAG  1260
CTGGGGCCGT GGATGTGCCC TGAAGGACAA GCCAGGCGTC TACACGAGAG TCTCACACTT  1320
CTTACCCTGG ATCCGCAGTC ACACCAAGGA AGAGAATGGC CTGGCCCTCT GAGGGTCCCC  1380
AGGGAGGAAA CGGGCACCAC CCGCTTTCTT GCTGGTTGTC ATTTTTGCAG TAGAGTCATC  1440
TCCATCAGCT GTAAGAAGAG ACTGGGAAGA TAGGCTCTGC ACAGATGGAT TTGCCTGTGG  1500
CACCACCAGG GTGAACGACA ATAGCTTTAC CCTCACGGAT AGGCCTGGGT GCTGGCTGCC  1560
CAGACCCTCT GGCCAGGATG GAGGGGTGGT CCTGACTCAA CATGTTACTG ACCAGCAACT  1620
TGTCTTTTTC TGGACTGAAG CCTGCAGGAG TTAAAAAGGG CAGGGCATCT CCTGTGCATG  1680
GGCTCGAAGG GAGAGCCAGC TCCCCCGACC GGTGGGCATT TGTGAGGCCC ATGGTTGAGA  1740
AATGAATAAT TTCCCAATTA GGAAGTGTAA GCAGCTGAGG TCTCTTGAGG GAGCTTAGCC  1800
AATGTGGGAG CAGCGGTTTG GGGAGCAGAG ACACTAACGA CTTCAGGGCA GGGCTCTGAT  1860
ATTCCATGAA TGTATCAGGA AATATATATG TGTGTGTATG TTTGCACACT TGTTGTGTGG  1920
GCTGTGAGTG TAAGTGTGAG TAAGAGCTGG TGTCTGATTG TTAAGTCTAA ATATTTCCTT  1980
AAACTGTGTG GACTGTGATG CCACACAGAG TGGTCTTTCT GGAGAGGTTA TAGGTCACTC  2040
CTGGGGCCTC TTGGGTCCCC CACGTGACAG TGCCTGGGAA TGTACTTATT CTGCAGCATG  2100
ACCTGTGACC AGCACTGTCT CAGTTTCACT TTCACATAGA TGTCCCTTTC TTGGCCAGTT  2160
ATCCCTTCCT TTTAGCCTAG TTCATCCAAT CCTCACTGGG TGGGGTGAGG ACCACTCCTT  2220
ACACTGAATA TTTATATTTC ACTATTTTTA TTTATATTTT TGTAATTTTA AATAAAAGTG  2280
```

ATCAATAAAA TGTGATTTTT CTGA

Seq ID NO: 292 Protein sequence:
Protein Accession #:NP_002649.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MRALLARLLL CVLVVSDSKG SNELHQVPSN CDCLNGGTCV SNKYFSNIHW CNCPKKFGGQ   60
HCEIDKSKTC YEGNGHFYRG KASTDTMGRP CLPWNSATVL QQTYHAHRSD ALQLGLGKHN  120
YCRNPDNRRR PWCYVQVGLK PLVQECMVHD CADGKKPSSP PEELKFQCGQ KTLRPRFKII  180
GGEFTTIENQ PWFAAIYRRH RGGSVTYVCG GSLISPCWVI SATHCFIDYP KKEDYIVYLG  240
RSRLNSNTQG EMKFEVENLI LHKDYSADTL AHHNDIALLK IRSKEGRCAQ PSRTIQTICL  300
PSMYNDPQFG TSCEITGFGK ENSTDYLYPE QLKMTVVKLI SHRECQQPHY YGSEVTTKML  360
CAADPQWKTD SCQGDSGGPL VCSLQGRMTL TGIVSWGRGC ALKDKPGVYT RVSHFLPWIR  420
SHTKEENGLA L
```

Seq ID NO: 293 DNA sequence
Nucleic Acid Accession #: NM_001498
Coding sequence: 93..2006

```
1           11          21          31          41          51
|           |           |           |           |           |
GGCACGAGGC TGAGTGTCCG TCTCGCGCCC GGAAGCGGGC GACCGCCGTC AGCCCGGAGG    60
AGGAGGAGGA GGAGGAGGAG GAGGGGGCGG CCATGGGGCT GCTGTCCCAG GGCTCGCCGC   120
TGAGCTGGGA GGAAACCAAG CGCCATGCCG ACCACGTGCG GCGGCACGGG ATCCTCCAGT   180
TCCTGCACAT CTACCACGCC GTCAAGGACC GGCACAAGGA CGTTCTCAAG TGGGGCGATG   240
AGGTGGAATA CATGTTGGTA TCTTTTGATC ATGAAAATAA AAAAGTCCGG TTGGTCCTGT   300
CTGGGGAGAA AGTTCTTGAA ACTCTGCAAG AGAAGGGGGA AAGGACAAAC CCAAACCATC   360
CTACCCTTTG GAGACCAGAG TATGGGAGTT ACATGATTGA AGGGACACCA GGACAGCCCT   420
ACGGAGGAAC AATGTCCGAG TTCAATACAG TTGAGGCCAA CATGCGAAAA CGCCGGAAGG   480
AGGCTACTTC TATATTAGAA GAAAATCAGG CTCTTTGCAC AATAACTTCA TTTCCCAGAT   540
TAGGCTGTCC TGGGTTCACA CTGCCCGAGG TCAAACCCAA CCCAGTGGAA GGAGGAGCTT   600
CCAAGTCCCT CTTCTTTCCA GATGAAGCAA TAAACAAGCA CCCTCGCTTC AGTACCTTAA   660
CAAGAAATAT CCGACATAGG AGAGGAGAAA AGGTTGTCAT CAATGTACCA ATATTTAAGG   720
ACAAGAATAC ACCATCTCCA TTTATAGAAA CATTTACTGA GGATGATGAA GCTTCAAGGG   780
CTTCTAAGCC GGATCATATT TACATGGATG CCATGGGATT TGGAATGGGC AATTGCTGTC   840
TCCAGGTGAC ATTCCAAGCC TGCAGTATAT CTGAGGCCAG ATACCTTTAT GATCAGTTGG   900
CTACTATCTG TCCAATTGTT ATGGCTTTGA GTGCTGCATC TCCCTTTTAC CGAGGCTATG   960
TGTCAGACAT TGATTGTCGC TGGGGAGTGA TTTCTGCATC TGTAGATGAT AGAACTCGGG  1020
AGGAGCGAGG ACTGGAGCCA TTGAAGAACA ATAACTATAG GATCAGTAAA TCCCGATATG  1080
ACTCAATAGA CAGCTATTTA TCTAAGTGTG GTGAGAAATA TAATGACATC GACTTGACGA  1140
TAGATAAAGA GATCTACGAA CAGCTGTTGC AGGAAGGCAT TGATCATCTC CTGGCCCAGC  1200
ATGTTGCTCA TCTCTTTATT AGAGACCCAC TGACACTGTT TGAAGAGAAA ATACACCTGG  1260
ATGATGCTAA TGAGTCTGAC CATTTTGAGA ATATTCAGTC CACAAATTGG CAGACAATGA  1320
GATTTAAGCC CCCTCCTCCA AACTCAGACA TTGGATGGAG AGTAGAATTT CGACCCATGG  1380
AGGTGCAATT AACAGACTTT GAGAACTCTG CCTATGTGGT GTTTGTGGTA CTGCTCACCA  1440
GAGTGATCCT TTCCTACAAA TTGGATTTTC TCATTCCACT GTCAAAGGTT GATGAGAACA  1500
TGAAGGTAGC ACAGAAAAGA GATGCTGTCT TGCAGGGAAT GTTTTATTTC AGGAAAGATA  1560
TTTGCAAAGG TGGCAATGCA GTGGTGGATG GTTGTGGCAA GGCCCAGAAC AGCACGGAGC  1620
TCGCTGCAGA GGAGTACACC CTCATGAGCA TAGACACCAT CATCAATGGG AAGGAAGGTG  1680
TGTTTCCTGG ACTGATCCCA ATTCTGAACT CTTACCTTGA AAACATGGAA GTGGATGTGG  1740
ACACCAGATG TAGTATTCTG AACTACCTAA AGCTAATTAA GAAGAGAGCA TCTGGAGAAC  1800
TAATGACAGT TGCCAGATGG ATGAGGGAGT TTATCGCAAA CCATCCTGAC TACAAGCAAG  1860
ACAGTGTCAT AACTGATGAA ATGAATTATA GCCTTATTTT GAAGTGTAAC CAAATTGCAA  1920
ATGAATTATG TGAATGCCCA GAGTTACTTG GATCAGCATT TAGGAAAGTA AAATATAGTG  1980
GAAGTAAAAC TGACTCATCC AACTAGACAT TCTACAGAAA GAAAAATGCA TTATTGACGA  2040
ACTGGCTACA GTACCATGCC TCTCAGCCCG TGTGTATAAT ATGAAGACCA AATGATAGAA  2100
CTGTACTGTT TTCTGGGCCA GTGAGCCAGA AATTGATTAA GGCTTTCTTT GGTAGGTAAA  2160
TCTAGAGTTT ATACAGTGTA CATGTACATA GTAAAGTATT TTTGATTAAC AATGTATTTT  2220
AATAACATAT CTAAAGTCAT CATGAACTGG CTTGTACATT TTTAAATTCT TACTCTGGAG  2280
CAACCTACTG TCTAAGCAGT TTTGTAAATG TACTGGTAAT TGTACAATAC TTGCATTCCA  2340
GAGTTAAAAT GTTTACTGTA AATTTTTGTT CTTTTAAAGA CTACCTGGGA CCTGATTTAT  2400
TGAAATTTTT CTCTTTAAAA ACATTTTCTC TCGTTAATTT TCCTTTGTCA TTTCCTTTGT  2460
TGTCTACATT AAATCACTTG AATCCATTGA AAGTGCTTCA AGGGTAATCT TGGGTTTCTA  2520
GCACCTTATC TATGATGTTT CTTTTGCAAT TGGAATAATC ACTTGGTCAC CTTGCCCCAA  2580
GCTTTCCCCT CTGAATAAAT ACCCATTGAA CTCTGAAAAA AAAAAAAAAA AAAA
```

Seq ID NO: 294 Protein sequence:
Protein Accession #: NP_001489

```
1           11          21          31          41          51
|           |           |           |           |           |
MGLLSQGSPL SWEETKRHAD HVRRHGILQF LHIYHAVKDR HKDVLKWGDE VEYMLVSFDH    60
ENKKVRLVLS GEKVLETLQE KGERTNPNHP TLWRPEYGSY MIEGTPGQPY GGTMSEFNTV   120
EANMRKRRKE ATSILEENQA LCTITSFPRL GCPGFTLPEV KPNPVEGGAS KSLFFPDEAI   180
NKHPRFSTLT RNIRHRRGEK VVINVPIFKD KNTPSPFIET FTEDDEASRA SKPDHIYMDA   240
MGFGMGNCCL QVTFQACSIS EARYLYDQLA TICPIVMALS AASPFYRGYV SDIDCRWGVI   300
SASVDDRTRE ERGLEPLKNN NYRISKSRYD SIDSYLSKCG EKYNDIDLTI DKEIYEQLLQ   360
EGIDHLLAQH VAHLFIRDPL TLFEEKIHLD DANESDHFEN IQSTNWQTMR FKPPPPNSDI   420
GWRVEFRPME VQLTDFENSA YVVFVVLLTR VILSYKLDFL IPLSKVDENM KVAQKRDAVL   480
QGMFYFRKDI CKGGNAVVDG CGKAQNSTEL AAEEYTLMSI DTIINGKEGV FPGLIPILNS   540
YLENMEVDVD TRCSILNYLK LIKKRASGEL MTVARWMREF IANHPDYKQD SVITDEMNYS   600
LILKCNQIAN ELCECPELLG SAFRKVKYSG SKTDSSN
```

Seq ID NO: 295 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 247-816

```
1          11         21         31         41         51
|          |          |          |          |          |
AGTGTTCGGC TGGGGCAGGC ACGCTGTGGC TGGCTACTTC CCTTCCTCCC ATCCCCCTTG    60
GGCCAAACGG GATCGGTGCT TCTGGTGAGA CGCCTCCCCA TGCACATCAC TCCCAGGTGC   120
CCTAGGGGGC ACATTTCCCA CAACTCCCAG AGGGCAGGTT TCTAGAAAGT GCCACCAGTG   180
GGGAGGCGCC ACAACTTCAC TGCCATTTTG TGAGGTGCCG CCGTCTCTCC TCCAGCAAGG   240
GAAACAATGA CCGATAAAAC AGAGAAGGTG GCTGTAGATC CTGAAACTGT GTTTAAACGT   300
CCCAGGGAAT GTGACAGTCC TTCGTATCAG AAAAGGCAGA GGATGGCCCT GTTGGCAAGG   360
AAACAAGGAG CAGGAGACAG CCTTATTGCA GGCTCTGCCA TGTCCAAAGA AAAGAAGCTT   420
ATGACAGGAC ATGCTATTCC ACCCAGCCAA TTGGATTCTC AGATTGATGA CTTCACTGGT   480
TTCAGCAAAG ATAGGATGAT GCAGAAACCT GGTAGCAATG CACCTGTGGG AGGAAACGTT   540
ACCAGCAGTT TCTCTGGAGA TGACCTAGAA TGCAGAGAAA CAGCCTCCTC TCCCAAAAGC   600
CAACGAGAAA TTAATGCTGA TATAAAACGT AAATTAGTGA AGGAACTCCG ATGCGTTGGA   660
CAAAAATATG AAAAAATCTT CGAAATGCTT GAAGGAGTGC AAGGACCTAC TGCAGTCAGG   720
AAGCGATTTT TTGAATCCAT CATCAAGGAA GCAGCAAGAT GTATGAGACG AGACTTTGTT   780
AAGCACCTTA AGAAGAAACT GAAACGTATG ATTTGAGAAT ACTTGTCCCT GGAGGATTAT   840
CACACCCCAA ATGCATAATC TCGTTAATGA TTGAGGAGAG AAAAGGATCA GATTGCTGTT   900
TTCTACAATG GAGCAGGATA TTGCTGAAGT CTCCTGGCAT ATGTTACCGA ATCAAATAGC   960
CTTCCAGAGG CTAAGAAATT TCTGTTAGTA AAAGATGTTC TTTTTCCCAA AGCATTTTAT  1020
TTGAAAGGAT AACTTGTGTT TTGGTTATTT TGTATTCCCA CCTGTGCTGG TAGATATTAT  1080
TAACCCATTA GGTAAATACT ATTACAGTCG TGGTTTCTGC A
```

Seq ID NO: 296 Protein sequence:
Protein Accession #: Eos sequence

```
1          11         21         31         41         51
|          |          |          |          |          |
MTDKTEKVAV DPETVFKRPR ECDSPSYQKR QRMALLARKQ GAGDSLIAGS AMSKEKKLMT    60
GHAIPPSQLD SQIDDFTGFS KDRMMQKPGS NAPVGGNVTS SFSGDDLECR ETASSPKSQR   120
EINADIKRKL VKELRCVGQK YEKIFEMLEG VQGPTAVRKR FFESIIKEAA RCMRRDFVKH   180
LKKKLKRMI
```

Seq ID NO: 297 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 247-815

```
1          11         21         31         41         51
|          |          |          |          |          |
AGTGTTCGGC TGGGGCAGGC ACGCTGTGGC TGGCTACTTC CCTTCCTCCC ATCCCCCTTG    60
GGCCAAACGG GATCGGTGCT TCTGGTGAGA CGCCTCCCCA TGCACATCAC TCCCAGGTGC   120
CCTAGGGGGC ACATTTCCCA CAACTCCCAG AGGGCAGGTT TCTAGAAAGT GCCACCAGTG   180
GGGAGGCGCC ACAACTTCAC TGCCATTTTG TGAGGTGCCG CCGTCTCTCC TCCAGCAAGG   240
GAAACAATGA CCGATAAAAC AGAGAAGGTG GCTGTAGATC CTGAAACTGT GTTTAAACGT   300
CCCAGGGAAT GTGACAGTCC TTCGTATCAG AAAAGGCAGA GGATGGCCCT GTTGGCAAGG   360
AAACAAGGAG CAGGAGACAG CCTTATTGCA GGCTCTGCCA TGTCCAAAGA AAAGAAGCTT   420
ATGACAGGAC ATGCTATTCC ACCCAGCCAA TTGGATTCTC AGATTGATGA CTTCACTGGT   480
TTCAGCAAAG ATAGGATGAT GCAGAAACCT GGTAGCAATG CACCTGTGGG AGGAAACGTT   540
ACCAGCAGTT TCTCTGGAGA TGACCTAGAA TGCAGAGAAA CAGCCTCCTC TCCCAAAAGC   600
CAACAAGAAA TTAATGCTGA TATAAAACGT AAATTAGTGA AGGAACTCCG ATGCGTTGGA   660
CAAAAATATG AAAAAATCTT CGAAATGCTT GAAGGAGTGC AAGGACCTAC TGCAGTCAGG   720
AAACGATTTT TTGAATCCAT CATCAAGGAA GCAGCAAGAT GTATGAGACG AGACTTTGTT   780
AAGCACCTTA AGAAGAAACT GAAACGTATG ATTTGAGAAT ACTTGTCCCT GGAGGATTAT   840
CACACCCCAA ATGCATAATC TCATTAATGA TTGAGGAGAG AAAAGGATCA GATTGCTGTT   900
TTCTACAATG GAGCAGGATA TTGCTGAAGT CTCCTGGCAT ATGTTACCGA ATCAACTGGC   960
CTTCCAGAGG CTAAGAAATT TCTGTTAGTA AAAGATGTTC TTTTTCCCAA AGCGTTTTAT  1020
TTGAAAGGAT AACTTGTGTT TTGGTTATTT TGTATTCCCA CCTGTGCTGG TAGATATTAT  1080
TAACCCATTA GGTAAATACT ATTACAGTCG TGGTTTCTGC A
```

Seq ID NO: 298 Protein sequence:
Protein Accession #: Eos sequence

```
1          11         21         31         41         51
|          |          |          |          |          |
MTDKTEKVAV DPETVFKRPR ECDSPSYQKR QRMALLARKQ GAGDSLIAGS AMSKEKKLMT    60
GHAIPPSQLD SQIDDFTGFS KDRMMQKPGS NAPVGGNVTS SFSGDDLECR ETASSPKSQQ   120
EINADIKRKL VKELRCVGQK YEKIFEMLEG VQGPTAVRKR FFESIIKEAA RCMRRDFVKH   180
LKKKLKRMI
```

Seq ID NO: 299 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 247-815

```
1          11         21         31         41         51
|          |          |          |          |          |
AGTGTTCGGC TGGGGCAGGC ACGCTGTGGC TGGCTACTTC CCTTCCTCCC ATCCCCCTTG    60
GGCCAAACGG GATCGGTGCT TCTGGTGAGA CGCCTCCCCA TGCACATCAC TCCCAGGTGC   120
CCTAGGGGGC ACATTTCCCA CAACTCCCAG AGGGCAGGTT TCTAGAAAGT GCCACCAGTG   180
GGGAGGCGCC ACAACTTCAC TGCCATTTTG TGAGGTGCCG CCGTCTCTCC TCCAGCAAGG   240
GAAACAATGA CCGATAAAAC AGAGAAGGTG GCTGTAGATC CTGAAACTGT GTTTAAACGT   300
CCCAGGGAAT GTGACAGTCC TTCGTATCAG AAAAGGCAGA GGATGGCCCT GTTGGCAAGG   360
AAACAAGGAG CAGGAGACAG CCTTATTGCA GGCTCTGCCA TGTCCAAAGC AAAGAGCTTA   420
TGACAGGACA TGCTATTCCA CCCAGCCAAT TGGATTCTCA GATTGATGAC TTCACTGGTT   480
```

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TCAGCAAAGA TAGGATGATG CAGAAACCTG GTAGCAATGC ACCTGTGGGA GGAAACGTTA   540
CCAGCAGTTT CTCTGGAGAT GACCTAGAAT GCAGAGAAAC AGCCTCCTCT CCCAAAAGCC   600
AACAAGAAAT TAATGCTGAT ATAAAACGTA AATTAGTGAA GGAACTCCGA TGCGTTGGAC   660
AAAAATATGA AAAAATCTTC GAAATGCTTG AAGGAGTGCA AGGACCTACT GCAGTCAGGA   720
AACGATTTTT TGAATCCATC ATCAAGGAAG CAGCAAGATG TATGAGACGA GACTTTGTTA   780
AGCACCTTAA GAAGAAACTG AAACGTATGA TTTGAGAATA CTTGTCCCTG GAGGATTATC   840
ACACCCCAAA TGCATAATCT CATTAATGAT TGAGGAGAGA AAAGGATCAG ATTGCTGTTT   900
TCTACAATGG AGCAGGATAT TGCTGAAGTC TCCTGGCATA TGTTACCGAA TCAACTGGCC   960
TTCCAGAGGC TAAGAAATTT CTGTTAGTAA AAGATGTTCT TTTTCCCAAA GCGTTTTATT  1020
TGAAAGGATA ACTTGTGTTT TGGTTATTTT GTATTCCCAC CTGTGCTGGT AGATATTATT  1080
AACCCATTAG GTAAATACTA TTACAGTCGT GGTTTCTGCA
```

Seq ID NO: 300 Protein sequence:
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MTDKTEKVAV DPETVFKRPR ECDSPSYQKR QRMALLARKQ GAGDSLIAGS AMSKAKKLMT    60
GHAIPPSQLD SQIDDFTGFS KDRMMQKPGS NAPVGGNVTS SFSGDDLECR ETASSPKSQQ   120
EINADIKRKL VKELRCVGQK YEKIFEMLEG VQGPTAVRKR FFESIIKEAA RCMRRDFVKH   180
LKKKLKRMI
```

Seq ID NO: 301 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 247-812

```
1           11          21          31          41          51
|           |           |           |           |           |
AGTGTTCGGC TGGGGCAGGC ACGCTGTGGC TGGCTACTTC CCTTCCTCCC ATCCCCCTTG    60
GGCCAAACGG GATCGGTGCT TCTGGTGAGA CGCCTCCCCA TGCACATCAC TCCCAGGTGC   120
CCTAGGGGGC ACATTTCCCA CAACTCCCAG AGGGCAGGTT TCTAGAAAGT GCCACCAGTG   180
GGGAGGCGCC ACAACTTCAC TGCCATTTTG TGAGGTGCCG CCGTCTCTCC TCCAGCAAGG   240
GAAACAATGA CCGATAAAAC AGAGAAGGTG GCTGTAGATC CTGAAACTGT GTTTAAACGT   300
CCCAGGGAAT GTGACAGTCC TTCGTATCAG AAAAGGCAGA GGATGGCCCT GTTGGCAAGG   360
AAACAAGGAG CAGGAGACAG CCTTATTGCA GGCTCTGCCA TGTCCAAAGA AAAGAGCTTA   420
TGACAGGACA TGCTATTCCA CCCAGCCAAT TGGATTCTCA GATTGATGAC TTCACTGGTT   480
TCAGCAAAGA TGGGATGATG CAGAAACCTG GTAGCAATGC ACCTGTGGGA GGAAATGTTA   540
CCAGCAATTT CTCTGGAGAT GACCTAGAAT GCAGAGGAAT AGCCTCCTCT CCCAAAAGCC   600
AACAAGAAAT TAATGCTGAT ATAAAATGTC AAGTAGTGAA GGAAATCCGA TGCCTTGGAC   660
AATATGAAAA AATCTTCGAA ATGCTTGAAG GAGTGCAAGG ACCTACTGCA GTCAGGAAAC   720
GATTTTTTGA ATCCATCATC AAGGAAGCAG CAAGATGTAT GAGACGAGAC TTTGTTAAGC   780
ACCTTAAGAA GAAACTGAAA CGTATGATTT GAGAATACTT GTCCCTGGAG GATTATCACA   840
CCCCAAATGC ATAATCTCAT TAATGATTGA GGAGAGAAAA GGATCAGATT GCTGTTTTCT   900
ACAATGGAGC AGGATATTGC TGAAGTCTCC TGGCATATGT TACCGAATCA ACTGGCCTTC   960
CAGAGGCTAA GAAATTTCTG TTAGTAAAAG ATGTTCTTTT TCCCAAAGCG TTTTATTTGA  1020
AAGGATAACT TGTGTTTTGG TTATTTTGTA TTCCCACCTG TGCTGGTAGA TATTATTAAC  1080
CCATTAGGTA AATACTATTA CAGTCGTGGT TTCTGCA
```

Seq ID NO: 302 Protein sequence:
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
MTDKTEKVAV DPETVFKRPR ECDSPSYQKR QRMALLARKQ GAGDSLIAGS AMSKEKKLMT    60
GHAIPPSQLD SQIDDFTGFS KDGMMQKPGS NAPVGGNVTS NFSGDDLECR GIASSPKSQQ   120
EINADIKCQV VKEIRCLGQY EKIFEMLEGV QGPTAVRKRF FESIIKEAAR CMRRDFVKHL   180
KKKLKRMI
```

Seq ID NO: 303 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 247-815

```
1           11          21          31          41          51
|           |           |           |           |           |
AGTGTTCGGC TGGGACAGGC ACGCTGTGGC TGGCTACTTC CCTTCCTTCC ATCCCCCTTG    60
GGCCAAACAG GATCGGTGCT TCTGGTGAGA CGTCTCCCCA TGCACATCAC TCCCAGATGC   120
CCTAGGGGGC ACATTTCCCA CAACTCCCAG AGGGCAGGTT TCTAGAAAGT GCCACCAGTG   180
GGGAGGCGCC ACAACTTCAC TGCCATTTTG TGAGGTGCCG CCGTCTCTCC TCCAGCAAGG   240
GAAACAATGA CCGATAAAAC AGAGAAGGTG GCTGTAGATC CTGAAACTGT GTTTAAACGT   300
CCCAGGGAAT GTGACAGTCC TTCGTATCAG AAAAGGCAGA GGATGGCCCT GTTGGCAAGG   360
AAACAAGGAG CAGGAGACAG CCTTATTGCA GGCTCTGCCA TGTCCAAAGC AAAGAGCTTA   420
TGACAGGACA TGCTATTCCA CCCAGCCAAT TGGATTCTCA GATTGATGAC TTCACTGGTT   480
TCAGCAAAGA TAGGATGATG CAGAAACCTG GTAGCAATGC ACCTGTGGGA GGAAACGTTA   540
CCAGCAGTTT CTCTGGAGAT GACCTAGAAT GCAGAGAAAC AGCCTCCTCT CCCAAAAGCC   600
AACAAGAAAT TAATGCTGAT ATAAAACGTA AATTAGTGAA GGAACTCCGA TGCGTTGGAC   660
AAAAATATGA AAAAATCTTC GAAATGCTTG AAGGAGTGCA AGGACCTACT GCAGTCAGGA   720
AACGATTTTT TGAATCCATC ATCAAGGAAG CAGCAAGATG TATGAGACGA GACTTTGTTA   780
AGCACCTTAA GAAGAAACTG AAACGTATGA TTTGAGAATA CTTGTCCCTG GAGGATTATC   840
ACACCCCAAA TGCATAATCT CGTTAATGAT TGAGGAGAGA AAAGGATCAG ATTGCTGTTT   900
TCTACAATGG AGCAGGATAT TGCTGAAGTC TCCTGGCATA TGTTACCGAA TCAACTGGCC   960
TTCCAGAGGC TAAGAAATTT CTGTTAGTAA AAGATGTTCT TTTTCCCAAA GCGTTTTATT  1020
TGAAAGGATA ACTTGTGTTT TGGTTATTTT GTATTCCCAC CTGTGCTGGT AGATATTATT  1080
AACCCATTAG GTAAATACTA TTACAGTCGT GGTTTCTGCA
```

Seq ID NO: 304 Protein sequence:
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MTDKTEKVAV DPETVFKRPR ECDSPSYQKR QRMALLARKQ GAGDSLIAGS AMSKAKKLMT    60
GHAIPPSQLD SQIDDFTGFS KDRMMQKPGS NAPVGGNVTS SFSGDDLECR ETASSPKSQQ   120
EINADIKRKL VKELRCVGQK YEKIFEMLEG VQGPTAVRKR FFESIIKEAA RCMRRDFVKH   180
LKKKLKRMI
```

Seq ID NO: 305 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 87-689

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1           11          21          31          41          51
|           |           |           |           |           |
CGTGGAGGCA GCTAGCGCGA GGCTGGGGAG CGCTGAGCCG CGCGTCGTGC CCTGCGCTGC     60
CCAGACTAGC GAACAATACA GTCAGGATGG CTAAAGGTGA CCCCAAGAAA CCAAAGGGCA   120
AGATGTCCGC TTATGCCTTC TTTGTGCAGA CATGCAGAGA AGAACATAAG AAGAAAAACC   180
CAGAGGTCCC TGTCAATTTT GCGGAATTTT CCAAGAAGTG CTCTGAGAGG TGGAAGACGA   240
TGTCCGGGAA AGAGAAATCT AAATTTGATG AAATGGCAAA GGCAGATAAA GTGCGCTATG   300
ATCGGGAAAT GAAGGATTAT GGACCAGCTA AGGGAGGCAA GAAGAAGAAG GATCCTAATG   360
CTCCCAAAAG GCCACCGTCT GGATTCTTCC TGTTCTGTTC AGAATTCCGC CCCAAGATCA   420
AATCCACAAA CCCCGGCATC TCTATTGGAG ACGTGGCAAA AAAGCTGGGT GAGATGTGGA   480
ATAATTTAAA TGACAGTGAA AAGCAGCCTT ACATCACTAA GGCGGCAAAG CTGAAGGAGA   540
AGTATGAGAA GGATGTTGCT GACTATAAGT CGAAAGGAAA GTTTGATGGT GCAAAGGGTC   600
CTGCTAAAGT TGCCCGGAAA AAGGTGGAAG AGGAAGATGA AGAAGAGGAG GAGGAAGAAG   660
AGGAGGAGGA GGAGGAGGAG GATGAATAAA GAAACTGTTT ATCTGTCTCC TTGTGAATAC   720
TTAGAGTAGG GGAGCGCCGT AATTGACACA TCTCTTATTT GAGAAGTGTC TGTTGCCCTC   780
ATTAGGTTTA ATTACAAAAT TTGATCACGA TCATATTGTA GTCTCTCAAA GTGCTCTAGA   840
AATTGTCAGT GGTTTACATG AAGTGGCCAT GGGTGTCTGG AGCACCCTGA AACTGTATCA   900
AAGTTGTACA TATTTCCAAA CATTTTTAAA ATGAAAAGGC ACTCTCGTGT TCTCCTCACT   960
CTGTGCACTT TGCTGTTGGT GTGACAAGGC ATTTAAAGAT GTTTCTGGCA TTTTCTTTTT  1020
ATTTGTAAGG TGGTGGTAAC TATGGTTATT GGCTAGAAAT CCTGAGTTTT CAACTGTATA  1080
TATCTATAGT TTGTAAAAAG AACAAAACAA CCGAGACAAA CCCTTGATGC TCCTTGCTCG  1140
GCGTTGAGGC TGTGGGGAAG ATGCCTTTTG GGAGAGGCTG TAGCTCAGGG CGTGCACTGT  1200
GAGGCTGGAC CTGTTGACTC TGCAGGGGGC ATCCATTTAG CTTCAGGTTG TCTTGTTTCT  1260
GTATATAGTG ACATAGCATT CTGCTGCCAT CTTAGCTGTG GACAAAGGGG GGTCAGCTGG  1320
CATGAGAATA TTTTTTTTTT TAAGTGCGGT AGTTTTTAAA CTGTTTGTTT TTAAACAAAC  1380
TATAGAACTC TTCATTGTCA GCAAAGCAAA GAGTCACTGC ATCAATGAAA GTTCAAGAAC  1440
CTCCTGTACT TAAACACGAT TCGCAACGTT CTGTTATTTT TTTTGTATGT TTAGAATGCT  1500
GAAATGTTTT TGAAGTTAAA TAAACAGTAT TACATTTTTA AAACTCTTCT CTATTATAAC  1560
AGTCAATTTC TGACTCACAG CAGTGAACAA ACCCCCACTC CATTGTATTT GGAGACTGGC  1620
CTCCCTATAA ATGTGGTAGC TTCTTTTATT ACTCAGTGGC CAGCTCACTT AGGGCTGAGA  1680
TGAAGGAGAG GGCTACTTGA AGCTACTGTG TGATTTTGTT TGTGTCTGAG TGGCATTCAG  1740
ATGAAGTCTG GAGGAGTTAG GAGAACGACA TAGGCAAGGT TCAGCAGCCT TCCAAGGTAT  1800
AGGAAGGTGG GTGATTAGGA CTGAGGCTAT CTAGGTTTAA CTTTTGTCCC ACCTCCACCC  1860
CCTATTTTGT GGGGCCAAAT GCATTGCTAA ACAGCAATTT CAGAGTGTAT GGTGTGTCAA  1920
AAATTAAGGC CTTATTGTTT TTCTCTTTCA CCCCTACCCC CCGTGCTCCT GGCACATATC  1980
ACATTATTTG TGGTGCCCAA CATTTGGGGT CTTGAGCCTG CTGCTGGTCT CCTGGATGCC  2040
AGTGAGGGTA TGTGGGATGG GGTGGTGGGG TAGGGGACGG TATCCTTTTT TTGCTCCTAC  2100
TTGGAAACAC CAAACACCCC AAGGAAGATG ATAGGCTCCA TCTTGGGCCA CCTGAGCTAT  2160
AGGGCAGGCT AATGGAATCA ACCATTTCTG AGCACTAAAT GTATCATGAA AAGTTGAATG  2220
GCCTGCTCAT AAGTTTAGCT CATTCACTGG AAATGTAGAT TGATGTTCAA TGTTAAACTG  2280
GAAGGAGCTT GGTTTGTGTG TCAGTGGTTA TATTAGTGGG TAGTGTAACA TTTTATCCAG  2340
GTTGGGGTGA GGGGAGATGG CCACAGTAGC AAGTGGTGAC ACTAAATACC ATTTTGAAGG  2400
CTGATGTGTA TATACATCAT TACTGTCCGT AGCAATGAAG GATACAGTAC TGTGTTGTGG  2460
GTGAGTGTTG CTATTGCCCA GCATTAATAT TTGGGTGTGT ATGTTTGAGG CTATGAAACA  2520
CGCAGGAGTG TTTTTGTGCT ATTAATTTTA AGAGAAAGCA GCTTTTTCTT AAAATTCACT  2580
GTTGAGAAAC TTGCATGTCT GGAGGCGGTG TCCTCTCCGC CCTGTCGGGT CCTGGATGAG  2640
TACGAGTTAT GGTCACGGTC ACAGCCTGAT CTCTTATGTG TTCATAGCCA TTCGCTCTCC  2700
CATCAGAACT GTTTGTCCTG AATGTGTTCC TCTAGTTCTA GAAAATGACC ACTAATTTAA  2760
AAAACTCGGT TGTGAGGTTT GCCCAGAGGC ACTTGTTCCA GAATTTCCCC TCCTGCTTCA  2820
GCCATGTCCT TGTCACTTGG CATTCTAAGC TAAAGCTTTA GCTTCCCAAT TCGTGATGTG  2880
CTAGGCCAAG ATTCGGGAGC TGTTGCCAGC CTCGTCAAAT ATGGAAGAGA AACAACCTGC  2940
GGTCAAAAGG GAGTGATTTG TTAAGTGGTG CGCGTCTATC TCATAACTAG ATGTACCAAC  3000
CAGGGAAGGG CCAAGGATGG AAAGGGGTAA CTTTTGTGCT TCCAAAGTAG CTAAGCAGAA  3060
GTGGGGGAGC AGTTTAGCCA GATGATCTTT GATTAGGCAA ACATTGAGTT TTAAAGAGGC  3120
TGTCAAGTTG AGGCCACTTG GTCCATTAGC TGGGGCAGCA AGATCACTAC TCAACGTTTT  3180
CACACTGTGG CAAGATTGCT CTTCTAGTGG AATAATGCCC TAGTTTCTCT GAGATGATGT  3240
AAGTGGCATG ATGTTACCTA AGGCTTAGGC TTAGCTTGAT TTCTGGGCCC ACTGTCTGTG  3300
TTCTTAAGAT GCCAACCTGT TGCTTTTTTT TTTTTTTTCC CCCATTTAAA AGGATAGTAC  3360
CTACTCCCTC TAACCACCTC ACCCCATTCT TGAATGACAT TTTATCCTTC GGAAAGAACA  3420
AGGCTGTGAT GTAGTGACTA TTGTCTGTGT CTCCTGTGTG TGTCTGTTCT TGTCACAAAT  3480
GTATTTGGGG ACGTTGGATG CATTCATTTT CTGTAATAAA G
```

Seq ID NO: 306 Protein sequence:
Protein Accession #: NP_005333.1

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1           11          21          31          41          51
|           |           |           |           |           |
MAKGDPKKPK GKMSAYAFFV QTCREEHKKK NPEVPVNFAE FSKKCSERWK TMSGKEKSKF    60
DEMAKADKVR YDREMKDYGP AKGGKKKKDP NAPKRPPSGF FLFCSEFRPK IKSTNPGISI   120
GDVAKKLGEM WNNLNDSEKQ PYITKAAKLK EKYEKDVADY KSKGKFDGAK GPAKVARKKV   180
EEEDEEEEEE EEEEEEEEDE
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Seq ID NO: 307 DNA sequence
Nucleic Acid Accession #: NM_022342
Coding sequence: 1..2178

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1          11         21         31         41         51
|          |          |          |          |          |
ATGGGTACTA GGAAAAAAGT TCATGCATTT GTCCGTGTCA AACCCACCGA TGACTTTGCT    60
CATGAAATGA TCAGATACGG AGATGACAAA AGAAGCATTG ATATTCACTT AAAAAAAGAC   120
ATTCGGAGAG GAGTTGTCAA TAACCAACAG ACAGACTGGT CGTTTAAGTT GGATGGAGTT   180
TTCACGATG CCTCCCAGGA CTTGGTTTAT GAGACAGTTG CAAAGGATGT GGTTTCTCAG    240
CCCTCGATG GCTATAATGG CACCATCATG TGTTATGGGC AGACGGGAGC TGGCAAGACA    300
ACACCATGA TGGGGGCAAC TGAGAATTAC AAGCACCGGG GGATCCTCCC TCGTGCCCTG    360
AGCAGGTTT TTAGGATGAT CGAAGAACGC CCCACACATG CCATCACTGT GCGTGTTTCC    420
ACTTGGAAA TCTATAATGA GAGCCTGTTT GATCTCCTGT CCACTCTGCC CTATGTTGGA    480
CCTCAGTCA CACCAATGAC CATCGTGGAA AACCCTCAAG GAGTCTTCAT TAAGGGCTTG    540
CAGTTCACC TCACAAGTCA GGAGGAGGAT GCATTCAGCC TCCTTTTTGA GGGTGAGACC    600
ACAGGATTA TAGCCTCCCA CACTATGAAC AAAAACTCTT CCAGATCACA CTGCATTTTC    660
CCATCTACT TAGAGGCCCA TTCCCGGACC TTATCAGAGG AAAAGTACAT CACTTCCAAA    720
TTAACTTGG TGGATCTGGC AGGCTCAGAG AGGCTGGGGA AGTCTGGGTC TGAGGGCCAA    780
TCCTGAAGG AAGCCACCTA CATCAACAAA TCGCTCTCAT TCCTGGAGCA GGCCATCATT    840
CCCTTGGGG ACCAGAAGCG GGACCACATC CCCTTTCGGC AGTGCAAGCT CACCCACGCT    900
TGAAGGACT CGTTAGGGGG AAACTGCAAT ATGGTCCTCG TGACAAACAT CTATGGAGAA    960
CTGCCCAGT TAGAAGAAAC GCTATCTTCA CTGAGATTTG CCAGCAGGAT GAAGCTAGTC   1020
CCACTGAGC CTGCCATCAA TGAAAAGTAT GATGCTGAGA GAATGGTCAA GAACCTGGAG   1080
AGGAACTAG CACTACTCAA GCAGGAGCTG GCTATCCATG ACAGCCTGAC CAACCGCACC   1140
TTGTGACCT ATGACCCCAT GGATGAAATC CAGATTGCTG AGATCAACTC CCAGGTGCGG   1200
GGTACCTGG AGGGGACACT GGACGAGATC GACATAATCA GCCTTAGACA GATCAAGGAG   1260
TGTTCAACC AGTTCCGGGT GGTTCTGAGC CAACAGGAAC AGGAAGTGGA GTCCACTTTG   1320
GCAGGAAGT ACACCCTCAT TGACAGGAAT GACTTTGCAG CCATTTCTGC TATCCAGAAG   1380
CGGGGCTTG TGGATGTTGA TGGCCACCTA GTGGGTGAGC CTGAAGGACA AAACTTTGGA   1440
TCGGAGTCG CCCCTTTCTC TACCAAACCT GGGAAGAAAG CCAAGTCCAA GAAGACATTC   1500
AAGAGCCAC TCAGGCCCGA CACCCCACCC TCCAAACCAG TGGCCTTTGA GGAGTTTAAG   1560
ATGAGCAAG GTAGTGAGAT CAACCGAATT TTCAAAGAAA ACAAATCCAT CTTGAATGAA   1620
GGAGGAAAA GGGCCAGCGA GACCACACAG CACATCAATG CCATCAAGCG GGAGATTGAT   1680
TGACCAAGG AGGCCCTGAA TTTCCAGAAG TCACTACGGG AGAAGCAAGG CAAGTACGAA   1740
ACAAGGGGC TGATGATCAT CGATGAGGAA GAATTCCTGC TGATCCTCAA GCTCAAAGAC   1800
TCAAGAAGC AGTACCGCAG CGAGTACCAG GACCTGCGTG ACCTCAGGGC TGAGATCCAG   1860
ATTGCCAGC ACCTAGTGGA TCAGTGTCGC CACCGCCTGC TCATGGAATT TGACATCTGG   1920
ACAATGAGT CCTTTGTCAT CCCTGAGGAC ATGCAGATGG CACTGAAGCC AGGCGGCAGC   1980
TCCGGCCAG GCATGGTCCC TGTGAACAGG ATTGTGTCTC TGGGAGAAGA TGACCAGGAC   2040
AATTCAGCC AGCTGCAGCA GAGGGTGCTT CCTGAGGGCC CTGATTCCAT CTCCTTCTAC   2100
ATGCCAAAG TCAAGATAGA GCAGAAGCAT AATTACTTGA AAACCATGAT GGGCCTCCAG   2160
AGGCACATA GAAAATAG
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Seq ID NO: 308 Protein sequence:
Protein Accession #: NP_071737

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1          11         21         31         41         51
|          |          |          |          |          |
MGTRKKVHAF VRVKPTDDFA HEMIRYGDDK RSIDIHLKKD IRRGVVNNQQ TDWSFKLDGV    60
LHDASQDLVY ETVAKDVVSQ ALDGYNGTIM CYGQTGAGKT YTMMGATENY KHRGILPRAL   120
QQVFRMIEER PTHAITVRVS YLEIYNESLF DLLSTLPYVG PSVTPMTIVE NPQGVFIKGL   180
SVHLTSQEED AFSLLFEGET NRIIASHTMN KNSSRSHCIF TIYLEAHSRT LSEEKYITSK   240
INLVDLAGSE RLGKSGSEGQ VLKEATYINK SLSFLEQAII ALGDQKRDHI PFRQCKLTHA   300
LKDSLGGNCN MVLVTNIYGE AAQLEETLSS LRFASRMKLV TTEPAINEKY DAERMVKNLE   360
KELALLKQEL AIHDSLTNRT FVTYDPMDEI QIAEINSQVR RYLEGTLDEI DIISLRQIKE   420
VFNQFRVVLS QQEQEVESTL RRKYTLIDRN DFAAISAIQK AGLVDVDGHL VGEPEGQNFG   480
LGVAPFSTKP GKKAKSKKTF KEPLRPDTPP SKPVAFEEFK NEQGSEINRI FKENKSILNE   540
RRKRASETTQ HINAIKREID VTKEALNFQK SLREKQGKYE NKGLMIIDEE EFLLILKLKD   600
LKKQYRSEYQ DLRDLRAEIQ YCQHLVDQCR HRLLMEFDIW YNESFVIPED MQMALKPGGS   660
IRPGMVPVNR IVSLGEDDQD KFSQLQQRVL PEGPDSISFY NAKVKIEQKH NYLKTMMGLQ   720
QAHRK
```

Seq ID NO: 309 DNA sequence
Nucleic Acid Accession #: CAT cluster

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1          11         21         31         41         51
|          |          |          |          |          |
TTTTTTTTTT TTTTTTTTAA TGCCTGCTGT CATGCTCTGT CTACCAGGGT GAATTTCCAA    60
AAATTTCTGC ATAGCAATTT TAGCCAAAAC TATATATGTT CTGGGGAGGA TAGGCATAGG   120
CACATTGAAG ACCAAAGGAA AGAGTGAAGA AGTGTAGTTG GGTCATTGTG AATGGATGTT   180
TAGATTGTCA AGAAAAGTGG GCCAGAGGCC CCACCTCACA CTAGGACGGC AATTGCCTCT   240
CATTAGTATC TCAGGCACCA TGGGTCTTAT TTGGTGTCAT AAGAAACACC CTCAACAAAG   300
TAATGAACCC TCAGCCTCCA GCTTCTCTTC TTCGGGATTC TTCTTAGGGC CTCCTTTTTC   360
CTTTTATGTT TCCAGTACCC TGAATTTCTT ATTCCCATCC CCCATTAAAA TCTGCTTCAA   420
AGAAAAAACA AGAAGGACAC ATTCACTTTA AGATCCAAAT GAATGATAAG AGCTTAAAAC   480
ATTATACTTA TCAGTATTAT TTGCATTTTT ATAGAAACCA AAACCATATT TCAACAAC
```

Seq ID NO: 310 DNA sequence
Nucleic Acid Accession #: NM_018622.2
Coding sequence: 1-1140

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGGCGTGGC GAGGCTGGGC GCAGAGAGGC TGGGGCTGCG GCCAGGCGTG GGGTGCGTCG    60
GTGGGCGGCC GCAGCTGCGA GGAGCTCACT GCGGTCCTAA CCCCGCCGCA GCTCCTCGGA   120
CGCAGGTTTA ACTTCTTTAT TCAACAAAAA TGCGGATTCA GAAAAGCACC CAGGAAGGTT   180
GAACCTCGAA GATCAGACCC AGGGACAAGT GGTGAAGCAT ACAAGAGAAG TGCTTTGATT   240
CCTCCTGTGG AAGAAACAGT CTTTTATCCT TCTCCCTATC CTATAAGGAG TCTCATAAAA   300
CCTTTATTTT TTACTGTTGG GTTTACAGGC TGTGCATTTG GATCAGCTGC TATTTGGCAA   360
```

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TATGAATCAC TGAAATCCAG GGTCCAGAGT TATTTTGATG GTATAAAAGC TGATTGGTTG   420
GATAGCATAA GACCACAAAA AGAAGGAGAC TTCAGAAAGG AGATTAACAA GTGGTGGAAT   480
AACCTAAGTG ATGGCCAGCG GACTGTGACA GGTATTATAG CTGCAAATGT CCTTGTATTC   540
TGTTTATGGA GAGTACCTTC TCTGCAGCGG ACAATGATCA GATATTTCAC ATCGAATCCA   600
GCCTCAAAGG TCCTTTGTTC TCCAATGTTG CTGTCAACAT TCAGTCACTT CTCCTTATTT   660
CACATGGCAG CAAATATGTA TGTTTTGTGG AGCTTCTCTT CCAGCATAGT GAACATTCTG   720
GGTCAAGAGC AGTTCATGGC AGTGTACCTA TCTGCAGGTG TTATTTCCAA TTTTGTCAGT   780
TACCTGGGTA AAGTTGCCAC AGGAAGATAT GGACCATCAC TTGGTGCATC TGGTGCCATC   840
ATGACAGTCC TCGCAGCTGT CTGCACTAAG ATCCCAGAAG GGAGGCTTGC CATTATTTTC   900
CTTCCGATGT TCACGTTCAC AGCAGGGAAT GCCCTGAAAG CCATTATCGC CATGGATACA   960
GCAGGAATGA TCCTGGGATG GAAATTTTTT GATCATGCGG CACATCTTGG GGGAGCTCTT  1020
TTTGGAATAT GGTATGTTAC TTACGGTCAT GAACTGATTT GGAAGAACAG GGAGCCGCTA  1080
GTGAAAATCT GGCATGAAAT AAGGACTAAT GGCCCCAAAA AAGGAGGTGG CTCTAAGTAA
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Seq ID NO: 311 Protein sequence:
Protein Accession #: NP_061092.2

```
1           11          21          31          41          51
|           |           |           |           |           |
MAWRGWAQRG WGCGQAWGAS VGGRSCEELT AVLTPPQLLG RRFNFFIQQK CGFRKAPRKV    60
EPRRSDPGTS GEAYKRSALI PPVEETVFYP SPYPIRSLIK PLFFTVGFTG CAFGSAAIWQ   120
YESLKSRVQS YFDGIKADWL DSIRPQKEGD FRKEINKWWN NLSDGQRTVT GIIAANVLVF   180
CLWRVPSLQR TMIRYFTSNP ASKVLCSPML LSTFSHFSLF HMAANMYVLW SFSSSIVNIL   240
GQEQFMAVYL SAGVISNFVS YLGKVATGRY GPSLGASGAI MTVLAAVCTK IPEGRLAIIF   300
LPMFTFTAGN ALKAIIAMDT AGMILGWKFF DHAAHLGGAL FGIWYVTYGH ELIWKNREPL   360
VKIWHEIRTN GPKKGGGSK
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Seq ID NO: 312 DNA sequence
Nucleic Acid Accession #: NM_000625
Coding sequence: 195..3656

```
1           11          21          31          41          51
|           |           |           |           |           |
CTCTCGGCCA CCTTTGATGA GGGGACTGGG CAGTTCTAGA CAGTCCCGAA GTTCTCAAGG    60
CACAGGTCTC TTCCTGGTTT GACTGTCCTT ACCCCGGGGA GGCAGTGCAG CCAGCTGCAA   120
GCCCCACAGT GAAGAACATC TGAGCTCAAA TCCAGATAAG TGACATAAGT GACCTGCTTT   180
GTAAAGCCAT AGAGATGGCC TGTCCTTGGA AATTTCTGTT CAAGACCAAA TTCCACCAGT   240
ATGCAATGAA TGGGGAAAAA GGCATCAACA ACAATGTGGA GAAAGCCCCC TGTGCCACCT   300
CCAGTCCAGT GACACAGGAT GACCTTCAGT ATCACAACCT CAGCAAGCAG CAGAATGAGT   360
CCCCGCAGCC CCTCGTGGAG ACGGGAAAGA AGTCTCCAGA ATCTCTGGTC AAGCTGGATG   420
CAACCCCATT GTCCTCCCCA CGGCATGTGA GGATCAAAAA CTGGGGCAGC GGGATGACTT   480
TCCAAGACAC ACTTCACCAT AAGGCCAAAG GGATTTTAAC TTGCAGGTCC AAATCTTGCC   540
TGGGGTCCAT TATGACTCCC AAAAGTTTGA CCAGAGGACC CAGGGACAAG CCTACCCCTC   600
CAGATGAGCT TCTACCTCAA GCTATCGAAT TTGTCAACCA ATATTACGGC TCCCTCAAAG   660
AGGCAAAAAT AGAGGAACAT CTGGCCAGGG TGGAAGCGGT AACAAAGGAG ATAGAAACAA   720
CAGTAACCTA CCAACTGACG GGAGATGAGC TCATCTTCGC CACCAAGCAG GCCTGGCGCA   780
ATGCCCCACG CTGCATTGGG AGGATCCAGT GGTCCAACCT GCAGGTCTTC GATGCCCGCA   840
GCTGTTCCAC TGCCCGGGAA ATGTTTGAAC ACATCTGCAG ACACGTGCGT TACTCCACCA   900
ACAATGGCAA CATCAGGTCG GCCATCACCG TGTTCCCCCA GCGGAGTGAT GGCAAGCACG   960
ACTTCCGGGT GTGGAATGCT CAGCTCATCC GCTATGCTGG CTACCAGATG CCAGATGGCA  1020
GCATCAGAGG GGACCCTGCC AACGTGGAAT TCACTCAGCT GTGCATCGAC CTGGGCTGGA  1080
AGCCCAAGTA CGGCCGCTTC GATGTGGTCC CCCTGGTCCT GCAGGCCAAT GGCCGTGACC  1140
CTGAGCTCTT CGAAATCCCA CCTGACCTTG TGCTTGAGGT GGCCATGGAA CATCCCAAAT  1200
ACGAGTGGTT TCGGGAACTG GAGCTAAAGT GGTACGCCCT GCCTGCAGTG GCCAACATGC  1260
TGCTTGAGGT GGGCGGCCTG GAGTTCCCAG GGTGCCCCTT CAATGGCTGG TACATGGGCA  1320
CAGAGATCGG AGTCCGGGAC TTCTGTGATG TCCAGCGCTA CAACATCCTG GAGGAAGTGG  1380
GCAGGAGAAT GGGCCTGGAA ACGCACAAGC TGGCCTCGCT CTGGAAAGAC CAGGCTGTCG  1440
TTGAGATCAA CATTGCTGTG CTCCATAGTT TCCAGAAGCA GAATGTGACC ATCATGGACC  1500
ACCACTCGGC TGCAGAATCC TTCATGAAGT ACATGCAGAA TGAATACCGG TCCCGTGGGG  1560
GCTGCCCGGC AGACTGGATT TGGCTGGTCC CTCCCATGTC TGGGAGCATC ACCCCCGTGT  1620
TTCACCAGGA GATGCTGAAC TACGTCCTGT CCCCTTTCTA CTACTATCAG GTAGAGGCCT  1680
GGAAAACCCA TGTCTGGCAG GACGAGAAGC GGAGACCCAA GAGAAGAGAG ATTCCATTGA  1740
AAGTCTTGGT CAAAGCTGTG CTCTTTGCCT GTATGCTGAT GCGCAAGACA ATGGCGTCCC  1800
GAGTCAGAGT CACCATCCTC TTTGCGACAG AGACAGGAAA ATCAGAGGCG CTGGCCTGGG  1860
ACCTGGGGGC CTTATTCAGC TGTGCCTTCA ACCCCAAGGT TGTCTGCATG GATAAGTACA  1920
GGCTGAGCTG CCTGGAGGAG GAACGGCTGC TGTTGGTGGT GACCAGTACG TTTGGCAATG  1980
GAGACTGCCC TGGCAATGGA GAGAAACTGA AGAAATCGCT CTTCATGCTG AAAGAGCTCA  2040
ACAACAAATT CAGGTACGCT GTGTTTGGCC TCGGCTCCAG CATGTACCCT CGGTTCTGCG  2100
CCTTTGCTCA TGACATTGAT CAGAAGCTGT CCCACCTGGG GGCCTCTCAG CTCACCCCGA  2160
TGGGAGAAGG GGATGAGCTC AGTGGGCAGG AGGACGCCTT CCGCAGCTGG GCCGTGCAAA  2220
CCTTCAAGGC AGCCTGTGAG ACGTTTGATG TCCGAGGCAA ACAGCACATT CAGATCCCCA  2280
AGCTCTACAC CTCCAATGTG ACCTGGGACC CGCACCACTA CAGGCTCGTG CAGGACTCAC  2340
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AACTCTCCTG TGAGGATGGC CAAGGCCTGA ACTACCTGCC GGGGGAGCAC CTTGGGGTTT  2520
GCCCAGGCAA CCAGCCGGCC CTGGTCCAAG GCATCCTGGA GCGAGTGGTG GATGGCCCCA  2580
CACCCCACCA GGCAGTGCGC CTGGAGGCCC TGGATGAGAG TGGCAGCTAC TGGGTCAGTG  2640
ACAAGAGGCT GCCCCCCTGC TCACTCAGCC AGGCCCTCAC CTACTTCCTG GACATCACCA  2700
CACCCCCAAC CCAGCTGCTG CTCCAAAAGC TGGCCCAGGT GGCCACAGAA GAGCCTGAGA  2760
GACAGAGGCT GGAGGCCCTG TGCCAGCCCT CAGAGTACAG CAAGTGGAAG TTCACCAACA  2820
GCCCCACATT CCTGGAGGTG CTAGAGGAGT TCCCGTCCCT GCGGGTGTCT GCTGGCTTCC  2880
TGCTTTCCCA GCTCCCCATT CTGAAGCCCA GGTTCTACTC CATCAGCTCC CCCCGGGATC  2940
ACACGCCCAC GGAGATCCAC CTGACTGTGG CCGTGGTCAC CTACCACACC CGAGATGGCC  3000
AGGGTCCCCT GCACCACGGC GTCTGCAGCA CATGGCTCAA CAGCCTGAAG CCCCAAGACC  3060
CAGTGCCCTG CTTTGTGCGG AATGCCAGCG GCTTCCACCT CCCCGAGGAT CCCTCCCATC  3120
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CTTGCATCCT CATCGGGCCT GGCACAGGCA TCGCGCCCTT CCGCAGTTTC TGGCAGCAAC  3180
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GCCGCCGCCC AGATGAGGAC CACATCTACC AGGAGGAGAT GCTGGAGATG GCCCAGAAGG  3300
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CGAAGAAGGA CAGGGTGGCG GTGCAGCCCA GCAGCCTGGA GATGTCAGCG CTCTGAGGGC  3660
CTACAGGAGG GGTTAAAGCT GCCGGCACAG AACTTAAGGA TGGAGCCAGC TCTGCATTAT  3720
CTGAGGTCAC AGGGCCTGGG GAGATGGAGG AAAGTGATAT CCCCCAGCCT CAAGTCTTAT  3780
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Seq ID NO: 313 Protein sequence:
Protein Accession #: NP_000616

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TPKSLTRGPR DKPTPPDELL PQAIEFVNQY YGSLKEAKIE EHLARVEAVT KEIETTVTYQ   180
LTGDELIFAT KQAWRNAPRC IGRIQWSNLQ VFDARSCSTA REMFEHICRH VRYSTNNGNI   240
RSAITVFPQR SDGKHDFRVW NAQLIRYAGY QMPDGSIRGD PANVEFTQLC IDLGWKPKYG   300
RFDVVPLVLQ ANGRDPELFE IPPDLVLEVA MEHPKYEWFR ELELKWYALP AVANMLLEVG   360
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AVLHSFQKQN VTIMDHHSAA ESFMKYMQNE YRSRGGCPAD WIWLVPPMSG SITPVFHQEM   480
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NGEKLKKSLF MLKELNNKFR YAVFGLGSSM YPRFCAFAHD IDQKLSHLGA SQLTPMGEGD   660
ELSGQEDAFR SWAVQTFKAA CETFDVRGKQ HIQIPKLYTS NVTWDPHHYR LVQDSQPLDL   720
SKALSSMHAK NVFTMRLKSR QNLQSPTSSR ATILVELSCE DGQGLNYLPG EHLGVCPGNQ   780
PALVQGILER VVDGPTPHQA VRLEALDESG SYWVSDKRLP PCSLSQALTY FLDITTPPTQ   840
LLLQKLAQVA TEEPERQRLE ALCQPSEYSK WKFTNSPTFL EVLEEFPSLR VSAGFLLSQL   900
PILKPRFYSI SSPRDHTPTE IHLTVAVVTY HTRDGQGPLH HGVCSTWLNS LKPQDPVPCF   960
VRNASGFHLP EDPSHPCILI GPGTGIAPFR SFWQQRLHDS QHKGVRGGRM TLVFGCRRPD  1020
EDHIYQEEML EMAQKGVLHA VHTAYSRLPG KPKVYVQDIL RQQLASEVLR VLHKEPGHLY  1080
VCGDVRMARD VAHTLKQLVA AKLKLNEEQV EDYFFQLKSQ KRYHEDIFGA VFPYEAKKDR  1140
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Seq ID NO: 314 DNA sequence
Nucleic Acid Accession #: XM_087254
Coding sequence: 47..2332

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CTTATCCCAT CTTACAACCA GTTCCTCTTT CAGAACCAGT CCTGAAAATG AAACTGAACT   240
AATTAAAGAA CATGATCTCT TCTTTAAAGC AGTCAGTCTC TGTCACACTG TACAGATTAG   300
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CAACGACAGG AGCATCTTGA CTCTCTCCAC AATGGACTCA TCTACTTGTT AAAGGGGCAG  2340
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TGCATTGTCA GTAAATGTAG TATATTATTG TACAGCTACT CATAATTTTT TAAAGTTTAT  5820
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Seq ID NO: 315 Protein sequence:
Protein Accession #: XP_087254

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AAARIGIVFI GNSEETMEVK TLGKLERYKL LHILEFDSDR RRMSVIVQAP SGEKLLFAKG  180
AESSILPKCI GGEIEKTRIH VDEFALKGLR TLCIAYRKFT SKEYEEIDKR IFEARTALQQ  240
REEKLAAVFQ FIEKDLILLG ATAVEDRLQD KVRETIEALR MAGIKVWVLT GDKHETAVSV  300
SLSCGHFHRT MNILELINQK SDSECAEQLR QLARRITEDH VIQHGLVVDG TSLSLALREH  360
EKLFMEVCRN CSAVLCCRMA PLQKAKVIRL IKISPEKPIT LAVGDGANDV SMIQEAHVGI  420
GIMGKEGRQA ARNSDYAIAR FKFLSKLLFV HGHFYYIRIA TLVQYFFYKN VCFITPQFLY  480
QFYCLFSQQT LYDSVYLTLY NICFTSLPIL IYSLLEQHVD PHVLQNKPTL YRDISKNRLL  540
SIKTFLYWTI LGFSHAFIFF FGSYLLIGKD TSLLGNGQMF GNWTFGTLVF TVMVITVTVK  600
MALETHFWTW INHLVTWGSI IFYFVFSLFY GGILWPFLGS QNMYFVFIQL LSSGSAWFAI  660
ILMVVTCLFL DIIKKVFDRH LHPTSTEKAQ LTETNAGIKC LDSMCCFPEG EAACASVGRM  720
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Seq ID NO: 316 DNA sequence
Nucleic Acid Accession #: NM_004473
Coding sequence: 661..1791

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GTCCAAATGG GGATTTGTAT AAACCAGTGC TCTCCATTAG AAATATGGTG CAAGCCACAT  3420
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Seq ID NO: 317 Protein sequence:
Protein Accession #: NP_004464

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PFYRDNPKKW QNSIRHNLTL NDCFLKIPRE AGRPGKGNYW ALDPNAEDMF ESGSFLRRRK   180
RFKRSDLSTY PAYMHDAAAA AAAAAAAAAA AAAAAIFPGA VPAARPPYPG AVYAGYAPPS   240
LAAPPPVYYP AASPGPCRVF GLVPERPLSP ELGPAPSGPG GSCAFASAGA PATTTGYQPA   300
GCTGARPANP SAYAAAYAGP DGAYPQGAGS AIFAAAGRLA GPASPPAGGS SGGVETTVDF   360
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Seq ID NO: 318 DNA sequence
Nucleic Acid Accession #: NM_005688
Coding sequence: 126..4439

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AGAAGATGAA GGATATCGAC ATAGGAAAAG AGTATATCAT CCCCAGTCCT GGGTATAGAA   180
GTGTGAGGGA GAGAACCAGC ACTTCTGGGA CGCACAGAGA CCGTGAAGAT TCCAAGTTCA   240
GGAGAACTCG ACCGTTGGAA TGCCAAGATG CCTTGGAAAC AGCAGCCCGA GCCGAGGGCC   300
TCTCTCTTGA TGCCTCCATG CATTCTCAGC TCAGAATCCT GGATGAGGAG CATCCCAAGG   360
GAAAGTACCA TCATGGCTTG AGTGCTCTGA AGCCCATCCG GACTACTTCC AAACACCAGC   420
ACCCAGTGGA CAATGCTGGG CTTTTTTCCT GTATGACTTT TTCGTGGCTT TCTTCTCTGG   480
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CCCGTGTGGC CCACAAGAAG GGGGAGCTCT CAATGGAAGA CGTGTGGTCT CTGTCCAAGC   540
ACGAGTCTTC TGACGTGAAC TGCAGAAGAC TAGAGAGACT GTGGCAAGAA GAGCTGAATG   600
AAGTTGGGCC AGACGCTGCT TCCCTGCGAA GGGTTGTGTG GATCTTCTGC CGCACCAGGC   660
TCATCCTGTC CATCGTGTGC CTGATGATCA CGCAGCTGGC TGGCTTCAGT GGACCAGCCT   720
TCATGGTGAA ACACCTCTTG GAGTATACCC AGGCAACAGA GTCTAACCTG CAGTACAGCT   780
TGTTGTTAGT GCTGGGCCTC CTCCTGACGG AAATCGTGCG GTCTTGGTCG CTTGCACTGA   840
CTTGGGCATT GAATTACCGA ACCGGTGTCC GCTTGCGGGG GGCCATCCTA ACCATGGCAT   900
TTAAGAAGAT CCTTAAGTTA AAGAACATTA AAGAGAAATC CCTGGGTGAG CTCATCAACA   960
TTTGCTCCAA CGATGGGCAG AGAATGTTTG AGGCAGCAGC CGTTGGCAGC CTGCTGGCTG  1020
GAGGACCCGT TGTTGCCATC TTAGGCATGA TTTATAATGT AATTATTCTG GGACCAACAG  1080
GCTTCCTGGG ATCAGCTGTT TTTATCCTCT TTTACCCAGC AATGATGTTT GCATCACGGC  1140
TCACAGCATA TTTCAGGAGA AAATGCGTGG CCGCCACGGA TGAACGTGTC CAGAAGATGA  1200
ATGAAGTTCT TACTTACATT AAATTTATCA AAATGTATGC CTGGGTCAAA GCATTTTCTC  1260
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AGGGTATCAC TGTGGGTGTG GCTCCCATTG TGGTGGTGAT TGCCAGCGTG GTGACCTTCT  1380
CTGTTCATAT GACCCTGGGC TTCGATCTGA CAGCAGCACA GGCTTTCACA GTGGTGACAG  1440
TCTTCAATTC CATGACTTTT GCTTTGAAAG TAACACCGTT TTCAGTAAAG TCCCTCTCAG  1500
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CCCTCTCCAT GGCAGTCATG CTGATCCTGA AAGCCATTCG AGGAGTTGTC TTTGTCAAGG  2940
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GGGAACCGTT ATTATAATTG TATCAGAGGC CTATAATGAA GCTTTATACG TGTAGCTATA  4740
TCTATATATA ATTCTGTACA TAGCCTATAT TTACAGTGAA AATGTAAGCT GTTTATTTTA  4800
TATTAAAATA AGCACTGTGC TAATAACAGT GCATATTCCT TTCTATCATT TTTGTACAGT  4860
TTGCTGTACT AGAGATCTGG TTTTGCTATT AGACTGTAGG AAGAGTAGCA TTTCATTCTT  4920
CTCTAGCTGG TGGTTTCACG GTGCCAGGTT TTCTGGGTGT CCAAAGGAAG ACGTGTGGCA  4980
ATAGTGGGCC CTCCGACAGC CCCCTCTGCC GCCTCCCCAC AGCCGCTCCA GGGGTGGCTG  5040
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CTGTCCTGGT GTCACTTACT GTTTCTGTCA GGAGAGCAGC GGGGCGAAGC CCAGGCCCCT  5160
TTTCACTCCC TCCATCAAGA ATGGGGATCA CAGAGACATT CCTCCGAGCC GGGGAGTTTC  5220
TTTCCTGCCT TCTTCTTTTT GCTGTTGTTT CTAAACAAGA ATCAGTCTAT CCACAGAGAG  5280
TCCCACTGCC TCAGGTTCCT ATGGCTGGCC ACTGCACAGA GCTCTCCAGC TCCAAGACCT  5340
GTTGGTTCCA AGCCCTGGAG CCAACTGCTG CTTTTTGAGG TGGCACTTTT TCATTTGCCT  5400
ATTCCCACAC CTCCACAGTT CAGTGGCAGG GCTCAGGATT TCGTGGGTCT GTTTTCCTTT  5460
CTCACCGCAG TCGTCGCACA GTCTCTCTCT CTCTCTCCCC TCAAAGTCTG CAACTTTAAG  5520
CAGCTCTTGC TAATCAGTGT CTCACACTGG CGTAGAAGTT TTTGTACTGT AAAGAGACCT  5580
ACCTCAGGTT GCTGGTTGCT GTGTGGTTTG GTGTGTTCCC GCAAACCCCC TTTGTGCTGT  5640
GGGGCTGGTA GCTCAGGTGG GCGTGGTCAC TGCTGTCATC AGTTGAATGG TCAGCGTTGC  5700
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ATGTCGTGAC CAACTAGACA TTCTGTCGCC TTAGCATGTT TGCTGAACAC CTTGTGGAAG  5760
CAAAAATCTG AAAATGTGAA TAAAATTATT TTGGATTTTG TAAAAAAAAA AAAAAAAAAA  5820
AAAAAAAAAA AAAAAAAA
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Seq ID NO: 319 Protein sequence:
Protein Accession #: NP_005679

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LDASMHSQLR ILDEEHPKGK YHHGLSALKP IRTTSKHQHP VDNAGLFSCM TFSWLSSLAR   120
VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI   180
LSIVCLMITQ LAGFSGPAFM VKHLLEYTQA TESNLQYSLL LVLGLLLTEI VRSWSLALTW   240
ALNYRTGVRL RGAILTMAFK KILKLKNIKE KSLGELINIC SNDGQRMFEA AAVGSLLAGG   300
PVVAILGMIY NVIILGPTGF LGSAVFILFY PAMMFASRLT AYFRRKCVAA TDERVQKMNE   360
VLTYIKFIKM YAWVKAFSQS VQKIREEERR ILEKAGYFQG ITVGVAPIVV VIASVVTFSV   420
HMTLGFDLTA AQAFTVVTVF NSMTFALKVT PFSVKSLSEA SVAVDRFKSL FLMEEVHMIK   480
NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTPKMKKDK RASRGKKEKV RQLQRTEHQA   540
VLAEQKGHLL LDSDERPSPE EEEGKHIHLG HLRLQRTLHS IDLEIQEGKL VGICGSVGSG   600
KTSLISAILG QMTLLEGSIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS   660
CCLRPDLAIL PSSDLTEIGE RGANLSGGQR QRISLARALY SDRSIYILDD PLSALDAHVG   720
NHIFNSAIRK HLKSKTVLFV THQLQYLVDC DEVIFMKEGC ITERGTHEEL MNLNGDYATI   780
FNNLLLGETP PVEINSKKET SGSQKKSQDK GPKTGSVKKE KAVKPEEGQL VQLEEKGQGS   840
VPWSVYGVYI QAAGGPLAFL VIMALFMLNV GSTAFSTWWL SYWIKQGSGN TTVTRGNETS   900
VSDSMKDNPH MQYYASIYAL SMAVMLILKA IRGVVFVKGT LRASSRLHDE LFRRILRSPM   960
KFFDTTPTGR ILNRFSKDMD EVDVRLPFQA EMFIQNVILV FFCVGMIAGV FPWFLVAVGP  1020
LVILFSVLHI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL  1080
LDDNQAPFFL FTCAMRWLAV RLDLISIALI TTTGLMIVLM HGQIPPAYAG LAISYAVQLT  1140
GLFQFTVRLA SETEARFTSV ERINHYIKTL SLEAPARIKN KAPSPDWPQE GEVTFENAEM  1200
RYRENLPLVL KKVSFTIKPK EKIGIVGRTG SGKSSLGMAL FRLVELSGGC IKIDGVRISD  1260
IGLADLRSKL SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE  1320
SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLLIQE TIREAFADCT  1380
MLTIAHRLHT VLGSDRIMVL AQGQVVEFDT PSVLLSNDSS RFYAMFAAAE NKVAVKG
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Seq ID NO: 320 DNA sequence
Nucleic Acid Accession #: AK022089.1
Coding sequence: 181-1488

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CCCCACCCCC ACCCTCAGAT CACTTTAAGA TAATTTCTTT ATTCGTTTGC CCGACAGACC   180
ATGGCTCCCT TTGGAAGAAA CTTGCTAAAG ACTCGGCATA AAAACAGATC TCCAACTAAA   240
GACATGGATT CAGAAGAGAA GGAAATTGTG GTTTGGGTTT GCCAAGAAGA GAAGCTTGTC   300
TGTGGGCTGA CTAAACGCAC CACCTCTGCT GATGTCATCC AGGCTTTGCT TGAGGAACAT   360
GAGGCTACGT TTGGAGAGAA ACGATTTCTT CTGGGGAAGC CCAGTGATTA CTGCATCATA   420
GAGAAGTGGA GAGGCTCCGA AAGGGTTCTT CCTCCACTAA CTAGAATCCT GAAGCTTTGG   480
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CTTCCAGTTC CTTTGTGGCG GACAGCTGAA GCCAAATTAG TGCAAAACAC AGAAAAATTG   600
TGGGAGCTCA GCCCAGCAAA CTACATGAAG ACTTTACCAC CAGATAAACA AAAAAGAATA   660
GTCAGGAAAA CTTTCCGGAA ACTGGCTAAA ATTAAGCAGG ACACAGTTTC TCATGATCGA   720
GATAATATGG AGACATTAGT TCATCTGATC ATTTCCCAGG ACCATACTAT TCATCAGCAA   780
GTCAAGAGAA TGAAAGAGCT GGATCTGGAA ATTGAAAAGT GTGAAGCTAA GTTCCATCTT   840
GATCGAGTAG AAAATGATGG AGAAAACTAT GTTCAGGATG CATATTTAAT GCCCAGTTTC   900
AGTGAAGTTG AGCAAAATCT AGACTTGCAG TATGAGGAAA ACCAGACTCT GGAGGACCTG   960
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GATAAGCTCT CTGCTGAAAT AGAAAAAGAG GTAAAAAGTG TTTGCATTGA TATAAATGAA  1080
GATGCGGAAG GGGAAGCTGC AAGTGAACTG GAAAGCTCTA ATTTAGAGAG TGTTAAGTGT  1140
GATTTGGAGA AAAGCATGAA AGCTGGTTTG AAAATTCACT CTCATTTGAG TGGCATCCAG  1200
AAAGAGATTA AATACAGTGA CTCATTGCTT CAGATGAAAG CAAAAGAATA TGAACTCCTG  1260
GCCAAGGAAT TCAATTCACT TCACATTAGC AACAAAGATG GGTGCCAGTT AAAGGAAAAC  1320
AGAGCGAAGG AATCTGAGGT TCCCAGTAGC AATGGGGAGA TTCCTCCCTT TACTCAAAGA  1380
GTATTTAGCA ATTACACAAA TGACACAGAC TCGGACACTG GTATCAGTTC TAACCACAGT  1440
CAGGACTCCG AAACAACAGT AGGAGATGTG GTGCTGTTGT CAACATAGTT CCAATGGCTC  1500
CTTTCTGACC TGCTTTCATG TTTTAATGTT TGTTTAATTT AATAGGAAAC CTCATTTTAA  1560
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GAAATGTGTT GTTTCTG
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Seq ID NO: 321 Protein sequence:
Protein Accession #: NP_005438.1

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EATFGEKRFL LGKPSDYCII EKWRGSERVL PPLTRILKLW KAWGDEQPNM QFVLVKADAF   120
LPVPLWRTAE AKLVQNTEKL WELSPANYMK TLPPDKQKRI VRKTFRKLAK IKQDTVSHDR   180
DNMETLVHLI ISQDHTIHQQ VKRMKELDLE IEKCEAKFHL DRVENDGENY VQDAYLMPSF   240
SEVEQNLDLQ YEENQTLEDL SESDGIEQLE ERLKYYRILI DKLSAEIEKE VKSVCIDINE   300
DAEGEAASEL ESSNLESVKC DLEKSMKAGL KIHSHLSGIQ KEIKYSDSLL QMKAKEYELL   360
AKEFNSLHIS NKDGCQLKEN RAKESEVPSS NGEIPPFTQR VFSNYTNDTD SDTGISSNHS   420
QDSETTVGDV VLLST
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Seq ID NO: 322 DNA sequence
Nucleic Acid Accession #: NM_030920.1

Coding sequence: 317-1123

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AGTTAGAGTC CCAACTCTTG GACTCCATTT GCTATTCTCT TCTTTCTCCC CCACACCTAT   180
CTGGTGGTGG TAGTGGGCGT TTATATTTGC GTTCCTTTTC ATTCATTTCT AAATCTCTTA   240
AAAATTTTGG GTTGGGGGTA TTGGGGAAGG CAGGAAAGGG AAAAGGAGAG TAGTAGCTGA   300
AGAGCAAGAG GAGGACATGG AGATGAAGAA GAAGATTAAC CTGGAGTTAA GGAACAGATC   360
CCCGGAGGAG GTGACAGAGT TAGTCCTTGA TAATTGCCTG TGTGTCAATG GGGAAATTGA   420
AGGCCTGAAT GATACTTTCA AAGAACTAGA ATTTCTGAGT ATGGCTAATG TGGAACTAAG   480
TTCGCTGGCC CGGCTTCCCA GCTTAAATAA ACTTCGAAAA TTGGAGCTTA GTGATAATAT   540
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GAAACGAGAT GCTGAAGACG ATGGAGAGGA AGAAGATGAC TAGATCATTC TAAGACCAGA  1140
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CTTGTGGAGA AACTAAAAAT GTTGTACAAC TGACCGAAAG AAAACCCTTG GGGATAAGTT  2820
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TTAGCTTTGT GGGTGGTATT TTCATGCAAA TAAGTAAGGG TGGGTTTTAT ATTTTGTAGA  3120
AGTTTTCGGT CCTATTTTAA TGCTCTTTGT ATGGCAGTAT GTATATATTG TGTTAAGTTC  3180
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Seq ID NO: 323 Protein sequence:
Protein Accession #: NP_112182.1

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FNCEITNLED YRESIFELLQ QITYLDGFDQ EDNEAPDSEE EDDEDGDEDD EEEEENEAGP   180
PEGYEEEEEE EEEEDEDEDE DEDEAGSELG EGEEEVGLSY LMKEEIQDEE DDDDYVEEGE   240
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Seq ID NO: 324 DNA sequence
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GCTCTCGCCG GCCACACGGA GCGGCGCCCG GGAGCTATGA GCCATGAAGC CGCCCGGCAG   240
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ACGCGGCCCC GCCGGCTCGG TGCCTGCCAG CGCCCCGGCC CGCACGCCGC CCTGCCGCCT   360
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GGCTGCTGCG CCCAGCGCTC CGCATTGGAA TGAAACTGCA GAAAAAAATT TGGGAGTCCT   480
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AAGCCCTTAT CACGTTCTTG ACACAAAGGC AAGACACCAG CAAAAACATA ATAAGGCTGT   660
CCATCTGGCC CAGGCAAGCT TCCAGATTGA AGCCTTCGGC TCCAAATTCA TTCTTGACCT   720
CATACTGAAC AATGGTTTGT TGTCTTCTGA TTATGTGGAG ATTCACTACG AAAATGGGAA   780
ACCACAGTAC TCTAAGGGTG GAGAGCACTG TTACTACCAT GGAAGCATCA GAGGCGTCAA   840
AGACTCCAAG GTGGCTCTGT CAACCTGCAA TGGACTTCAT GGCATGTTTG AAGATGATAC   900
CTTCGTGTAT ATGATAGAGC CACTAGAGCT GGTTCATGAT GAGAAAAGCA CAGGTCGACC   960
ACATATAATC CAGAAAACCT TGGCAGGACA GTATTCTAAG CAAATGAAGA ATCTCACTAT  1020
GGAAAGAGGT GACCAGTGGC CCTTTCTCTC TGAATTACAG TGGTTGAAAA GAAGGAAGAG  1080
AGCAGTGAAT CCATCACGTG GTATATTTGA AGAAATGAAA TATTTGGAAC TTATGATTGT  1140
TAATGATCAC AAAACGTATA AGAAGCATCG CTCTTCTCAT GCACATACCA ACAACTTTGC  1200
AAAGTCCGTG GTCAACCTTG TGGATTCTAT TTACAAGGAG CAGCTCAACA CCAGGGTTGT  1260
CCTGGTGGCT GTAGAGACCT GGACTGAGAA GGATCAGATT GACATCACCA CCAACCCTGT  1320
GCAGATGCTC CATGAGTTCT CAAAATACCG GCAGCGCATT AAGCAGCATG CTGATGCTGT  1380
GCACCTCATC TCGCGGGTGA CATTTCACTA TAAGAGAAGC AGTCTGAGTT ACTTTGGAGG  1440
TGTCTGTTCT CGCACAAGAG GAGTTGGTGT GAATGAGTAT GGTCTTCCAA TGGCAGTGGC  1500
ACAAGTATTA TCGCAGAGCC TGGCTCAAAA CCTTGGAATC CAATGGGAAC CTTCTAGCAG  1560
AAAGCCAAAA TGTGACTGCA CAGAATCCTG GGGTGGCTGC ATCATGGAGG AAACAGGGGT  1620
GTCCCATTCT CGAAAATTTT CAAAGTGCAG CATTTTGGAG TATAGAGACT TTTTACAGAG  1680
AGGAGGTGGA GCCTGCCTTT TCAACAGGCC AACAAAGCTA TTTGAGCCCA CGGAATGTGG  1740
AAATGGATAC GTGGAAGCTG GGGAGGAGTG TGATTGTGGT TTTCATGTGG AATGCTATGG  1800
ATTATGCTGT AAGAAATGTT CCCTCTCCAA CGGGGCTCAC TGCAGCGACG GGCCCTGCTG  1860
TAACAATACC TCATGTCTTT TTCAGCCACG AGGGTATGAA TGCCGGGATG CTGTGAACGA  1920
GTGTGATATT ACTGAATATT GTACTGGAGA CTCTGGTCAG TGCCCACCAA ATCTTCATAA  1980
GCAAGACGGA TATGCATGCA ATCAAAATCA GGGCCGCTGC TACAATGGCG AGTGCAAGAC  2040
CAGAGACAAC CAGTGTCAGT ACATCTGGGG AACAAAGGCT GCAGGGTCTG ACAAGTTCTG  2100
CTATGAAAAG CTGAATACAG AAGGCACTGA GAAGGGAAAC TGCGGGAAGG ATGGAGACCG  2160
GTGGATTCAG TGCAGCAAAC ATGATGTGTT CTGTGGATTC TTACTCTGTA CCAATCTTAC  2220
TCGAGCTCCA CGTATTGGTC AACTTCAGGG TGAGATCATT CCAACTTCCT TCTACCATCA  2280
AGGCCGGGTG ATTGACTGCA GTGGTGCCCA TGTAGTTTTA GATGATGATA CGGATGTGGG  2340
CTATGTAGAA GATGGAACGC CATGTGGCCC GTCTATGATG TGTTTAGATC GGAAGTGCCT  2400
ACAAATTCAA GCCCTAAATA TGAGCAGCTG TCCACTCGAT TCCAAGGGTA AAGTCTGTTC  2460
GGGCCATGGG GTGTGTAGTA ATGAAGCCAC CTGCATTTGT GATTTCACCT GGGCAGGGAC  2520
AGATTGCAGT ATCCGGGATC CAGTTAGGAA CCTTCACCCC CCCAAGGATG AAGGACCCAA  2580
GGGTCCTAGT GCCACCAATC TCATAATAGG CTCCATCGCT GGTGCCATCC TGGTAGCAGC  2640
TATTGTCCTT GGGGGCACAG GCTGGGGATT TAAAAATGTC AAGAAGAGAA GGTTCGATCC  2700
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ATTCTGGGTA TGACATACTC GCAGCAGTGT TACTGGAACT ATTAAGTTTG TAAACAAAAC  2820
CTTTGGGTGG TAATGACTAC GGAGCTAAAG TTGGGGTGAC AAGGATGGGG TAAAAGAAAA  2880
CTGTCTCTTT TGGAAATAAT GTCAAAGAAC ACCTTTCACC ACCTGTCAGT AAACGGGGGA  2940
GGGGGCAAAA GACCATGCTA TAAAAAGAAC TGTTCCAGAA TCTTTTTTTT TCCCTAATGG  3000
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Seq ID NO: 325 Protein sequence:
Protein Accession #: NP_003803

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RPRAWGAAAP SAPHWNETAE KNLGVLADED NTLQQNSSSN ISYSNAMQKE ITLPSRLIYY   120
INQDSESPYH VLDTKARHQQ KHNKAVHLAQ ASFQIEAFGS KFILDLILNN GLLSSDYVEI   180
HYENGKPQYS KGGEHCYYHG SIRGVKDSKV ALSTCNGLHG MFEDDTFVYM IEPLELVHDE   240
KSTGRPHIIQ KTLAGQYSKQ MKNLTMERGD QWPFLSELQW LKRRKRAVNP SRGIFEEMKY   300
LELMIVNDHK TYKKHRSSHA HTNNFAKSVV NLVDSIYKEQ LNTRVVLVAV ETWTEKDQID   360
ITTNPVQMLH EFSKYRQRIK QHADAVHLIS RVTFHYKRSS LSYFGGVCSR TRGVGVNEYG   420
LPMAVAQVLS QSLAQNLGIQ WEPSSRKPKC DCTESWGGCI MEETGVSHSR KFSKCSILEY   480
RDFLQRGGGA CLFNRPTKLF EPTECGNGYV EAGEECDCGF HVECYGLCCK KCSLSNGAHC   540
SDGPCCNNTS CLFQPRGYEC RDAVNECDIT EYCTGDSGQC PPNLHKQDGY ACNQNQGRCY   600
NGECKTRDNQ CQYIWGTKAA GSDKFCYEKL NTEGTEKGNC GKDGDRWIQC SKHDVFCGFL   660
LCTNLTRAPR IGQLQGEIIP TSFYHQGRVI DCSGAHVVLD DDTDVGYVED GTPCGPSMMC   720
LDRKCLQIQA LNMSSCPLDS KGKVCSGHGV CSNEATCICD FTWAGTDCSI RDPVRNLHPP   780
KDEGPKGPSA TNLIIGSIAG AILVAAIVLG GTGWGFKNVK KRRFDPTQQG PI
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Seq ID NO: 326 DNA sequence
Nucleic Acid Accession #: AK074418.1
Coding sequence: 244-1515

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ACCTGAGAGC CTGTGGAACC TGCCCGTCTC CCCTCCTCCA TCAGACACAC CTGCCTAGGA   120
AACAGATGGA AAAAGTGAGG GACCGGTGAG TGACTTGCTG CTAAAGTTTA TACCAGATGC   180
AAATGACAGA GCTGGAGTTC TGCTGTGCCT GGAAAGGACC TCGGAAGTCT TCTAAGGAGA   240
GTCATGGCGT ATTACCAGGA GCCTTCAGTG GAGACCTCCA TCATCAAGTT CAAAGACCAG   300
GACTTTACCA CCTTGCGGGA TCACTGCCTG AGCATGGGCC GGACGTTTAA GGATGAGACA   360
TTCCCCGCAG CAGATTCTTC CATAGGCCAG AAGCTGCTCC AGGAAAAACG CCTCTCCAAT   420
GTGATATGGA AGCGGCCACA GGATCTACCA GGGGGTCCTC CTCACTTCAT CCTGGATGAT   480
ATAAGCAGAT TTGACATCCA ACAAGGAGGC GCAGCTGACT GCTGGTTCCT GGCAGCACTG   540
GGATCCTTGA CTCAGAACCC ACAGTACAGG CAGAAGATCC TGATGGTCCA AAGCTTTTCA   600
CACCAGTATG CTGGCATTTT CCGTTTCCGG TTCTGGCAAT GTGGCCAGTG GGTGGAAGTG   660
GTGATTGATG ACCGCCTACC TGTCCAGGGA GATAAATGCC TCTTTGTGCG TCCTCGCCAC   720
CAAAACCAAG AGTTCTGGCC CTGCCTGCTG GAGAAGGCCT ATGCCAAGCT GCTCGGATCC   780
TATTCCGATC TGCACTATGG CTTCCTCGAG GATGCCCTGG TGGACCTCAC AGGAGGCGTG   840
ATCACCAACA TCCATCTGCA CTCTTCCCCT GTGGACCTGG TGAAGGCAGT GAAGACAGCG   900
ACCAAGGCAG GCTCCCTGAT AACCTGTGCC ACTCCAAGTG GGCCAACAGA TACAGCACAG   960
GCGATGGAGA ATGGGCTGGT GAGTCTCCAT GCCTACACTG TGACTGGGGC TGAGCAGATT  1020
CAATACCGAA GGGGCTGGGA AGAAATTATC TCCCTGTGGA ACCCCTGGGG CTGGGGCGAG  1080
ACCGAATGGA GAGGGCGCTG GAGTGATGGG TCTCAGGAGT GGGAGGAAAC CTGTGATCCG  1140
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AACACTGCAG GAGGACCTCG GAATGATGCT CAATTCAACT TCTCTGTGCA AGAGCCAATG  1380
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GAAGATGCAA AATTTCCACT CGATTTCCAA GTGATTCTGG CTGGCTCACA GAAACACTGT  1500
CCAAAGCTCA AATAATAAAT TCCGCCGCAA CTTCACCATG ACTTACCATC TGAGCCCTGG  1560
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CCTGAAAATG CCAGACAGTG ACAGGCACCT GAGCAGCCAT TTCAACCTCA GAATGAAGGG  1680
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CCCTCACAGG CCCTTACTGG GATGCAGAGA GGAGAAGTGA CTTGATGGAC TATTTTACCT  1860
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CGCCCCACCC AGTCTCATCC GGGGGACTTC AAGCTGGAAT GCAGAGCTTA GAAAGGGAGG  1980
GGATAATTAT GGGGTGTGAG GTGCATTGCC CTCTAAATCT TTAAACAAGC AATTGGCAGT  2040
ACCCCGTGAA ACCTTTCCTT CTCCTACTCG GCCACCTCCC ACCAACCTGG CATCGTTCCT  2100
CCCGGGAGCT AGCCAGCTTC AGAAAGCACA TACAGCATCC TTGCTGCCAA ACCACCTATG  2160
TGCACACAGG ATTTCCTTAA TGGCTTAATA AACTGTTATA AAGAACTCCT TGACTTGTCA  2220
GAATAAAATA GCTGCCAGGG GCTCTGCACA ATGAGCCTCT TACCGTTAAA AAAAAAAAAA  2280
AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA
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Seq ID NO: 327 Protein sequence:
Protein Accession #: BAB85075.1

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IWKRPQDLPG GPPHFILDDI SRFDIQQGGA ADCWFLAALG SLTQNPQYRQ KILMVQSFSH   120
QYAGIFRFRF WQCGQWVEVV IDDRLPVQGD KCLFVRPRHQ NQEFWPCLLE KAYAKLLGSY   180
SDLHYGFLED ALVDLTGGVI TNIHLHSSPV DLVKAVKTAT KAGSLITCAT PSGPTDTAQA   240
MENGLVSLHA YTVTGAEQIQ YRRGWEEIIS LWNPWGWGET EWRGRWSDGS QEWEETCDPR   300
KSQLHKKRED GEFWMSCQDF QQKFIAMFIC SEIPITLDHG NTLHEGWSQI MFRKQVILGN   360
TAGGPRNDAQ FNFSVQEPME GTNVVVCVTV AVTPSNLKAE DAKFPLDFQV ILAGSQKHCP   420
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Seq ID NO: 328 DNA sequence
Nucleic Acid Accession #: BC017490.1
Coding sequence: 74-2788

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TCGTGGTACT GCTATGGCGG AATCATCGGA ATCCTTCACC ATGGCATCCA GCCCGGCCCA   120
GCGTCGGCGA GGCAATGATC CTCTCACCTC CAGCCCTGGC CGAAGCTCCC GGCGTACTGA   180
TGCCCTCACC TCCAGCCCTG GCCGTGACCT TCCACCATTT GAGGATGAGT CCGAGGGGCT   240
CCTAGGCACA GAGGGGCCCC TGGAGGAAGA AGAGGATGGA GAGGAGCTCA TTGGAGATGG   300
CATGGAAAGG GACTACCGCG CCATCCCAGA GCTGGACGCC TATGAGGCCG AGGGACTGGC   360
TCTGGATGAT GAGGACGTAG AGGAGCTGAC GGCCAGTCAG AGGGAGGCAG CAGAGCGGGC   420
CATGCGGCAG CGTGACCGGG AGGCTGGCCG GGGCCTGGGC CGCATGCGCC GTGGGCTCCT   480
GTATGACAGC GATGAGGAGG ACGAGGAGCG CCCTGCCCGC AAGCGCCGCC AGGTGGAGCG   540
GGCCACGGAG GACGGCGAGG AGGACGAGGA GATGATCGAG AGCATCGAGA ACCTGGAGGA   600
TCTCAAAGGC CACTCTGTGC GCGAGTGGGT GAGCATGGCG GGCCCCCGGC TGGAGATCCA   660
CCACCGCTTC AAGAACTTCC TGCGCACTCA CGTCGACAGC CACGGCCACA ACGTCTTCAA   720
GGAGCGCATC AGCGACATGT GCAAAGAGAA CCGTGAGAGC CTGGTGGTGA ACTATGAGGA   780
CTTGGCAGCC AGGGAGCACG TGCTGGCCTA CTTCCTGCCT GAGGCACCGG CGGAGCTGCT   840
GCAGATCTTT GATGAGGCTG CCCTGGAGGT GGTACTGGCC ATGTACCCCA AGTACGACCG   900
CATCACCAAC CACATCCATG TCCGCATCTC CCACCTGCCT CTGGTGGAGG AGCTGCGCTC   960
GCTGAGGCAG CTGCATCTGA ACCAGCTGAT CCGCACCAGT GGGGTGGTGA CCAGCTGCAC  1020
TGGCGTCCTG CCCCAGCTCA GCATGGTCAA GTACAACTGC AACAAGTGCA ATTTCGTCCT  1080
GGGTCCTTTC TGCCAGTCCC AGAACCAGGA GGTGAAACCA GGCTCCTGTC CTGAGTGCCA  1140
GTCGGCCGGC CCCTTTGAGG TCAACATGGA GGAGACCATC TATCAGAACT ACCAGCGTAT  1200
CCGAATCCAG GAGAGTCCAG GCAAAGTGGC GGCTGGCCGG CTGCCCCGCT CCAAGGACGC  1260
CATTCTCCTC GCAGATCTGG TGGACAGCTG CAAGCCAGGA GACGAGATAG AGCTGACTGG  1320
CATCTATCAC AACAACTATG ATGGCTCCCT CAACACTGCC AATGGCTTCC CTGTCTTTGC  1380
CACTGTCATC CTAGCCAACC ACGTGGCCAA GAAGGACAAC AAGGTTGCTG TAGGGGAACT  1440
GACCGATGAA GATGTGAAGA TGATCACTAG CCTCTCCAAG GATCAGCAGA TCGGAGAGAA  1500
GATCTTTGCC AGCATTGCTC CTTCCATCTA TGGTCATGAA GACATCAAGA GAGGCCTGGC  1560
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TGAGAAAGTG TCCAGCCGAG CCATCTTCAC CACTGGCCAG GGGGCGTCGG CTGTGGGCCT  1740
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GGTTCTGGCT GACCGAGGAG TGTGTCTCAT TGATGAATTT GACAAGATGA ATGACCAGGA  1860
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CTTTGACATC CTGTGTGTGG TGAGGGACAC CGTGGACCCA GTCCAGGACG AGATGCTGGC  2100
CCGCTTCGTG GTGGGCAGCC ACGTCAGACA CCACCCCAGC AACAAGGAGG AGGAGGGGCT  2160
GGCCAATGGC AGCGCTGCTG AGCCCGCCAT GCCCAACACG TATGGCGTGG AGCCCCTGCC  2220
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CCAGATGGAC CAGGACAAGG TGGCCAAGAT GTACAGTGAC CTGAGGAAAG AATCTATGGC  2340
GACAGGCAGC ATCCCCATTA CGGTGCGGCA CATCGAGTCC ATGATCCGCA TGGCGGAGGC  2400
CCACGCGCGC ATCCATCTGC GGGACTATGT GATCGAAGAC GACGTCAACA TGGCCATCCG  2460
CGTGATGCTG GAGAGCTTCA TAGACACACA GAAGTTCAGC GTCATGCGCA GCATGCGCAA  2520
GACTTTTGCC CGCTACCTTT CATTCCGGCG TGACAACAAT GAGCTGTTGC TCTTCATACT  2580
GAAGCAGTTA GTGGCAGAGC AGGTGACATA TCAGCGCAAC CGCTTTGGGG CCCAGCAGGA  2640
CACTATTGAG GTCCCTGAGA AGGACTTGGT GGATAAGGCT CGTCAGATCA ACATCCACAA  2700
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TTCTGGTTTG GGGTGGTCAG TGCCCTCTGT GCTTTATGGA CACAAAACCA GAGCACTTGA  2880
TGAACTCGGG GTACTAGGGT CAGGGCTTAT AGCAGGATGT CTGGCTGCAC CTGGCATGAC  2940
TGTTTGTTTC TCCAAGCCTG CTTTGTGCTT CTCACCTTTG GGTGGGATGC CTTGCCAGTG  3000
TGTCTTACTT GGTTGCTGAA CATCTTGCCA CCTCCGAGTG CTTTGTCTCC ACTCAGTACC  3060
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ATGGATGTCA GGAGAGCTGC TGCCCTCTTG GCGTGAGTTG CGTATTCAGG CTGCTTTTGC  3180
TGCCTTTGGC CAGAGAGCTG GTTGAAGATG TTTGTAATCG TTTTCAGTCT CCTGCAGGTT  3240
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GTCGCAGGGG TGGGATGTGA GTCATGCGGA TTATCCACTC GCCACAGTTA TCAGCTGCCA  3360
TTGCTCCCTG TCTGTTTCCC CACTCTCTTA TTTGTGCATT CGGTTTGGTT TCTGTAGTTT  3420
TAATTTTTAA TAAAGTTGAA TAAAATATAA AAAAAAAAAA AAAAAA
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Seq ID NO: 329 Protein sequence:
Protein Accession #: AAH17490.1

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GPLEEEEDGE ELIGDGMERD YRAIPELDAY EAEGLALDDE DVEELTASQR EAAERAMRQR   120
DREAGRGLGR MRRGLLYDSD EEDEERPARK RRQVERATED GEEDEEMIES IENLEDLKGH   180
SVREWVSMAG PRLEIHHRFK NFLRTHVDSH GHNVFKERIS DMCKENRESL VVNYEDLAAR   240
EHVLAYFLPE APAELLQIFD EAALEVVLAM YPKYDRITNH IHVRISHLPL VEELRSLRQL   300
HLNQLIRTSG VVTSCTGVLP QLSMVKYNCN KCNFVLGPFC QSQNQEVKPG SCPECQSAGP   360
FEVNMEETIY QNYQRIRIQE SPGKVAAGRL PRSKDAILLA DLVDSCKPGD EIELTGIYHN   420
NYDGSLNTAN GFPVFATVIL ANHVAKKDNK VAVGELTDED VKMITSLSKD QQIGEKIFAS   480
IAPSIYGHED IKRGLALALF GGEPKNPGGK HKVRGDINVL LCGDPGTAKS QFLKYIEKVS   540
SRAIFTTGQG ASAVGLTAYV QRHPVSREWT LEAGALVLAD RGVCLIDEFD KMNDQDRTSI   600
HEAMEQQSIS ISKAGIVTSL QARCTVIAAA NPIGGRYDPS LTFSENVDLT EPIISRFDIL   660
CVVRDTVDPV QDEMLARFVV GSHVRHHPSN KEEEGLANGS AAEPAMPNTY GVEPLPQEVL   720
KKYIIYAKER VHPKLNQMDQ DKVAKMYSDL RKESMATGSI PITVRHIESM IRMAEAHARI   780
HLRDYVIEDD VNMAIRVMLE SFIDTQKFSV MRSMRKTFAR YLSFRRDNNE LLLFILKQLV   840
AEQVTYQRNR FGAQQDTIEV PEKDLVDKAR QINIHNLSAF YDSELFRMNK FSHDLKRKMI   900
LQQF
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Seq ID NO: 330 DNA sequence
Nucleic Acid Accession #: M17254
Coding sequence: 257-1645

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CTTTGGAGAC CCGAGGAAAG CCGTGTTGAC CAAAAGCAAG ACAAATGACT CACAGAGAAA   180
AAAGATGGCA GAACCAAGGG CAACTAAAGC CGTCAGGTTC TGAACAGCTG GTAGATGGGC   240
TGGCTTACTG AAGGACATGA TTCAGACTGT CCCGGACCCA GCAGCTCATA TCAAGGAAGC   300
CTTATCAGTT GTGAGTGAGG ACCAGTCGTT GTTTGAGTGT GCCTACGGAA CGCCACACCT   360
GGCTAAGACA GAGATGACCG CGTCCTCCTC CAGCGACTAT GGACAGACTT CCAAGATGAG   420
CCCACGCGTC CCTCAGCAGG ATTGGCTGTC TCAACCCCCA GCCAGGGTCA CCATCAAAAT   480
GGAATGTAAC CCTAGCCAGG TGAATGGCTC AAGGAACTCT CCTGATGAAT GCAGTGTGGC   540
CAAAGGCGGG AAGATGGTGG GCAGCCCAGA CACCGTTGGG ATGAACTACG GCAGCTACAT   600
GGAGGAGAAG CACATGCCAC CCCCAAACAT GACCACGAAC GAGCGCAGAG TTATCGTGCC   660
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GTGCAAGATG ACCAAGGACG ACTTCCAGAG GCTCACCCCC AGCTACAACG CCGACATCCT   840
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AATCCCACTA ATGCAAACTG GGATGAAACT AAAGCAATAG AAACAACACA GTTTTGACCT  2040
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TCAAAAACAA GAGAAAAGAC ACGAGAGAGA CTGTGGCCCA TCAACAGACG TTGATATGCA  2160
ACTGCATGGC ATGTGCTGTT TTGGTTGAAA TCAAATACAT TCCGTTTGAT GGACAGCTGT  2220
CAGCTTTCTC AAACTGTGAA GATGACCCAA AGTTTCCAAC TCCTTTACAG TATTACCGGG  2280
ACTATGAACT AAAAGGTGGG ACTGAGGATG TGTATAGAGT GAGCGTGTGA TTGTAGACAG  2340
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TGTCAAATGA AAATTTTAAC TGGAATTGTC TGATATTTAA GAGAAACATT CAGGACCTCA  2640
TCATTATGTG GGGGCTTTGT TCTCCACAGG GTCAGGTAAG AGATGGCCTT CTTGGCTGCC  2700
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TACAATATGA AGTTATTAGT TCTTAGAATG CAGAATGTAT GTAATAAAAT AAGCTTGGCC  3000
TAGCATGGCA AATCAGATTT ATACAGGAGT CTGCATTTGC ACTTTTTTTA GTGACTAAAG  3060
TTGCTTAATG AAAACATGTG CTGAATGTTG TGGATTTTGT GTTATAATTT ACTTTGTCCA  3120
GGAACTTGTG CAAGGGAGAG CCAAGGAAAT AGGATGTTTG GCACCC
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Seq ID NO: 331 Protein sequence
Protein Accession #: AAA52398

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1           11          21          31          41          51
|           |           |           |           |           |
MIQTVPDPAA HIKEALSVVS EDQSLFECAY GTPHLAKTEM TASSSSDYGQ TSKMSPRVPQ   60
QDWLSQPPAR VTIKMECNPS QVNGSRNSPD ECSVAKGGKM VGSPDTVGMN YGSYMEEKHM  120
PPPNMTTNER RVIVPADPTL WSTDHVRQWL EWAVKEYGLP DVNILLFQNI DGKELCKMTK  180
DDFQRLTPSY NADILLSHLH YLRETPLPHL TSDDVDKALQ NSPRLMHARN TDLPYEPPRR  240
SAWTGHGHPT PQSKAAQPSP STVPKTEDQR PQLDPYQILG PTSSRLANPG SGQIQLWQFL  300
LELLSDSSNS SCITWEGTNG EFKMTDPDEV ARRWGERKSK PNMNYDKLSR ALRYYYDKNI  360
MTKVHGKRYA YKFDFHGIAQ ALQPHPPESS LYKYPSDLPY MGSYHAHPQK MNFVAPHPPA  420
LPVTSSSFFA APNPYWNSPT GGIYPNTRLP TSHMPSHLGT YY                     462
```

Seq ID NO: 332 DNA sequence
Nucleic Acid Accession #: NM_000020
Coding sequence: 283-1794

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1           11          21          31          41          51
|           |           |           |           |           |
AGGAAACGGT TTATTAGGAG GGAGTGGTGG AGCTGGGCCA GGCAGGAAGA CGCTGGAATA    60
AGAAACATTT TTGCTCCAGC CCCCATCCCA GTCCCGGGAG GCTGCCGCGC CAGCTGCGCC   120
GAGCGAGCCC CTCCCCGGCT CCAGCCCGGT CCGGGGCCGC GCCGGACCCC AGCCCGCCGT   180
CCAGCGCTGG CGGTGCAACT GCGGCCGCGC GGTGGAGGGG AGGTGGCCCC GGTCCGCCGA   240
AGGCTAGCGC CCCGCCACCC GCAGAGCGGG CCCAGAGGGA CCATGACCTT GGGCTCCCCC   300
AGGAAAGGCC TTCTGATGCT GCTGATGGCC TTGGTGACCC AGGGAGACCC TGTGAAGCCG   360
TCTCGGGGCC CGCTGGTGAC CTGCACGTGT GAGAGCCCAC ATTGCAAGGG GCCTACCTGC   420
CGGGGGGCCT GGTGCACAGT AGTGCTGGTG CGGGAGGAGG GGAGGCACCC CCAGGAACAT   480
CGGGGCTGCG GGAACTTGCA CAGGGAGCTC TGCAGGGGGC GCCCCACCGA GTTCGTCAAC   540
CACTACTGCT GCGACAGCCA CCTCTGCAAC CACAACGTGT CCCTGGTGCT GGAGGCCACC   600
CAACCTCCTT CGGAGCAGCC GGGAACAGAT GGCCAGCTGG CCCTGATCCT GGGCCCCGTG   660
CTGGCCTTGC TGGCCCTGGT GGCCCTGGGT GTCCTGGGCC TGTGGCATGT CCGACGGAGG   720
CAGGAGAAGC AGCGTGGCCT GCACAGCGAG CTGGGAGAGT CCAGTCTCAT CCTGAAAGCA   780
TCTGAGCAGG GCGACACGAT GTTGGGGGAC CTCCTGGACA GTGACTGCAC CACAGGGAGT   840
GGCTCAGGGC TCCCCTTCCT GGTGCAGAGG ACAGTGGCAC GGCAGGTTGC CTTGGTGGAG   900
TGTGTGGGAA AAGGCCGCTA TGGCGAAGTG TGGCGGGGCT TGTGGCACGG TGAGAGTGTG   960
GCCGTCAAGA TCTTCTCCTC GAGGGATGAA CAGTCCTGGT TCCGGGAGAC TGAGATCTAT  1020
AACACAGTAT TGCTCAGACA CGACAACATC CTAGGCTTCA TCGCCTCAGA CATGACCTCC  1080
CGCAACTCGA GCACGCAGCT GTGGCTCATC ACGCACTACC ACGAGCACGG CTCCCTCTAC  1140
GACTTTCTGC AGAGACAGAC GCTGGAGCCC CATCTGGCTC TGAGGCTAGC TGTGTCCGCG  1200
GCATGCGGCC TGGCGCACCT GCACGTGGAG ATCTTCGGTA CACAGGGCAA ACCAGCCATT  1260
GCCCACCGCG ACTTCAAGAG CCGCAATGTG CTGGTCAAGA GCAACCTGCA GTGTTGCATC  1320
GCCGACCTGG GCCTGGCTGT GATGCACTCA CAGGGCAGCG ATTACCTGGA CATCGGCAAC  1380
AACCCGAGAG TGGGCACCAA GCGGTACATG GCACCCGAGG TGCTGGACGA GCAGATCCGC  1440
ACGGACTGCT TTGAGTCCTA CAAGTGGACT GACATCTGGG CCTTTGGCCT GGTGCTGTGG  1500
GAGATTGCCC GCCGGACCAT CGTGAATGGC ATCGTGGAGG ACTATAGACC ACCCTTCTAT  1560
GATGTGGTGC CCAATGACCC CAGCTTTGAG GACATGAAGA AGGTGGTGTG TGTGGATCAG  1620
CAGACCCCCA CCATCCCTAA CCGGCTGGCT GCAGACCCGG TCCTCTCAGG CCTAGCTCAG  1680
ATGATGCGGG AGTGCTGGTA CCCAAACCCC TCTGCCCGAC TCACCGCGCT GCGGATCAAG  1740
AAGACACTAC AAAAAATTAG CAACAGTCCA GAGAAGCCTA AAGTGATTCA ATAGCCCAGG  1800
AGCACCTGAT TCCTTTCTGC CTGCAGGGGG CTGGGGGGGT GGGGGGCAGT GGATGGTGCC  1860
CTATCTGGGT AGAGGTAGTG TGAGTGTGGT GTGTGCTGGG GATGGGCAGC TGCGCCTGCC  1920
TGCTCGGCCC CCAGCCCACC CAGCCAAAAA TACAGCTGGG CTGAAACCTG ATCCCCTGCT  1980
GTCTGGCCTG CTCAAAGCGG CAGGCTCCCT GACGCCTGGC TCTCTCCCCA CCCCTATGGC  2040
CAGCATGGTG CACCCCCTAC CACTCCCGGG ACAGGATGCA AAAGAGGCTC CAGAGTCAGA  2100
GTGCCAAGCC AGGGAATCCC AGTCCCAGAC TCAGAGCCCG GGCCTGCACT TTGCCCCCTG  2160
CCCTTGATCA ACCCCACTGC CCCACCAGAG CTGCCAGGGT GGCACAGGGC CCTGTCCAGC  2220
CCCTGGCACA CACTTCCCTG CCAGGCCTCA GCCTCTAGCA TAAGCTCCAG AGAGCCAGGG  2280
CCCATCAGTT TCTCTCTGTG GATTTGTATC TCAGCTCCAT GATGCCTTGG GCTTTCTGTC  2340
TCCTCAACAA GAGTGCAGCT TGCTGAATGT CAGCTGCCTG AGAGAGCTGG GGCCTGACTT  2400
ACTAGGGCAT TAAATCCTAA GAGGTCCTAC TGAGGTGTGG CAGGATCACA GGCCAGTGGA  2460
AAAAGGGCAG GTCAGATGGG CAAGGCCCAG GACTTTCAGA TTAACTGAGA GGATATCGAG  2520
GCCAAGCATG GCAGGGGGAA GGTCAGTGGG TGTCAAGAGA CCCAGGTCTG ACCCCGGATG  2580
TTTGCTCCAT GTGACAAAAG CAGGCCTGTC TCAGGACCTT TTCTTTTCTT TTTTCCTTCT  2640
TTTTTTTTTT GACACGGAGT TTCGCTCTTG TTGTCCAGGC TAGAGTGCAA TGGCATGATC  2700
CCAGCTCACC GCAACGTCTA CCTCCCAGGT TCAAATCATT CTCTTGCCTC AGACTCCCGA  2760
GTAGCTGGGA TTACAGGCAC ATGCCACCAT GCCTGGCTAA TTTTGTATAT TTAGTAGAAA  2820
CAGGGTTTCA CCATGCTGGC CATGCTGGTT CTCGAACTCC TGACCTCAGG TGTTCCACCT  2880
ACCTCAGCCT CCCAAAGTGC TGGGGTTACA GGTGTGAGCC ATCGCGCCTG GCCAGGACCT  2940
TTGTTTCTTA TCTACATATT GGAAGATTTG GTCCTGATGT CCTTTGAGGC TTCTTTAGCT  3000
CTAGTTCTCT GACACTTCAG CCTATATCAC AGCTAACTTC YTCAGTCTCA TCTATTCCTT  3060
ATGCTCCAGC CCCTGGCAAT TTGCCTCAAG ATGGGGGTTT GAAAATAACT TTACCTGACT  3120
CAAGGAGTGT CTGGAGCACC TCCTAGTCTA AGTCTGCAAG CTCCAGTTCT TGCCTAAAAC  3180
CATGCCAGTG GCCACCCTTG GGCTCAGACA GCTCTGGGCC TTTTGACCAC AAGCCAGCCC  3240
CTCGCCCTCT CTGTGGCATA GTCTTCTCTG CCCCAGGACT GCAGGGCGGC TTCCTCCAAG  3300
GCTTCCAAGG CTCAAAAGAA ATTTGGCTCC ATCCAAGAAG GCTCCAGCTC CCCTACTGGC  3360
CCCTGGCTTC AGGCCCACAC CCCTGGGCCA GGSCCAGAGA GTGTGTCTCA GGAGAATTCA  3420
ATGGGCTCTA GAGAGACACA CAGAAAGTTT GGGCATTTGG GAAATTTTCA AGGRTGTATG  3480
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TATGGYTCAC GTATGGWGCA GGTTGTCCTG GTCCYKGGGT GCAGGGAAGT GGGCTGCAGG  3540
GAAGTGGATT GGAGGGGAGC TTGAGGAATA TAAGGAGCGG GGGTGGAGAC TCAGGCTATG  3600
GACAAGGACA GCCCCAAGGT TGGGAAGACC TGGCCTTAGT CGTCCTCAGC CTAGGGCAGG  3660
GCAGTGAAGA AAGCTCTCCC CGCTCCTGCT GTAATGACCC AGAGTAGCCT CCCCAGGCCG  3720
GCATCTTATG TGTGTCTTCC ACCATCCTCA TGGTGGCACT TTTCTAGGCC TGTCTCCCAG  3780
CATTGTGCAA GGCTCGGAAG AGAACCAGGA AGTGAAACTG GGTGAAAACA GAAAGCTCAA  3840
TGGATGGGCT AGGTTCCCAG ATCATTAGGG CAGAGTTTGC ACGTCCTCTG GTTCACTGGG  3900
AATCCACCCA GCCCACGAAT CATCTCCCTC TTTGAAGGAT TTTWATTTCT ACTGGGTTTT  3960
GGAACAAACT CCTGCTGAGA CCCCACAGCC AGAAACTGAA AGCAGCAGCT CCCCAAAGCC  4020
TGGAAAATCC CTAAGAGAAG GCCTGGGGGA MAGGAAKTGG AGTGACAGGG GACAGGTAGA  4080
GAGAAGGGGG CCCAATGGCC AGGGAGTGAA GGAGGTGGCG TTGCTGAGAG CAGTCTGCAC  4140
ATGCTTCTGT CTGAGTGCAG GAAGGTGTTC CAGGGTCGAA ATTACACTTC TCGTACCTGG  4200
AGACGCTGTT TGTGGGAGCA CTGGGCTCAT GCCTGGCACA CAATAGGTCT GCAATAAACC  4260
ATGGTTAAAT CCTGAAAAAA AAAAAAAAA
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Seq ID NO: 333 Protein sequence
Protein Accession #: NP_000011

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1          11         21         31         41         51
|          |          |          |          |          |
MTLGSPRKGL LMLLMALVTQ GDPVKPSRGP LVTCTCESPH CKGPTCRGAW CTVVLVREEG    60
RHPQEHRGCG NLHRELCRGR PTEFVNHYCC DSHLCNHNVS LVLEATQPPS EQPGTDGQLA   120
LILGPVLALL ALVALGVLGL WHVRRRQEKQ RGLHSELGES SLILKASEQG DTMLGDLLDS   180
DCTTGSGSGL PFLVQRTVAR QVALVECVGK GRYGEVWRGL WHGESVAVKI FSSRDEQSWF   240
RETEIYNTVL LRHDNILGFI ASDMTSRNSS TQLWLITHYH EHGSLYDFLQ RQTLEPHLAL   300
RLAVSAACGL AHLHVEIFGT QGKPAIAHRD FKSRNVLVKS NLQCCIADLG LAVMHSQGSD   360
YLDIGNNPRV GTKRYMAPEV LDEQIRTDCF ESYKWTDIWA FGLVLWEIAR RTIVNGIVED   420
YRPPFYDVVP NDPSFEDMKK VVCVDQQTPT IPNRLAADPV LSGLAQMMRE CWYPNPSARL   480
TALRIKKTLQ KISNSPEKPK VIQ
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Seq ID NO: 334 DNA sequence
Nucleic Acid Accession #: NM_004126.1
Coding sequence: 108-329

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1          11         21         31         41         51
|          |          |          |          |          |
GGCACGAGCT CGTGCCGGCC TTCAGTTGTT TCGGGACGCG CCGAGCTTCG CCGCTCTTCC    60
AGCGGCTCCG CTGCCAGAGC TAGCCCGAGC CCGGTTCTGG GGCGAAAATG CCTGCCCTTC   120
ACATCGAAGA TTTGCCAGAG AAGGAAAAAC TGAAAATGGA AGTTGAGCAG CTTCGCAAAG   180
AAGTGAAGTT GCAGAGACAA CAAGTGTCTA AATGTTCTGA AGAAATAAAG AACTATATTG   240
AAGAACGTTC TGGAGAGGAT CCTCTAGTAA AGGGAATTCC AGAAGACAAG AACCCCTTTA   300
AAGAAAAAGG CAGCTGTGTT ATTTCATAAA TAACTTGGGA GAAACTGCAT CCTAAGTGGA   360
AGAACTAGTT TGTTTTAGTT TTCCCAGATA AAACCAACAT GCTTTTTAAG GAAGGAAGAA   420
TGAAATTAAA AGGAGACTTT CTTAAGCACC ATATAGATAG GGTTATGTAT AAAAGCATAT   480
GTGCTACTCA TCTTTGCTCA CTATGCAGTC TTTTTTAAGA GAGCAGAGAG TATCAGATGT   540
ACAATTATGG AAATAAGAAC ATTACTTGAG CATGACACTT CTTTCAGTAT ATTGCTTGAT   600
GCTTCAAATA AAGTTTTGTC TT
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Seq ID NO: 335 Protein sequence
Protein Accession #: NP_004117.1

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1          11         21         31         41         51
|          |          |          |          |          |
MPALHIEDLP EKEKLKMEVE QLRKEVKLQR QQVSKCSEEI KNYIEERSGE DPLVKGIPED    60
KNPFKEKGSC VIS
```

Seq ID NO: 336 DNA sequence
Nucleic Acid Accession #: NM_005795
Coding sequence: 555-1940

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1          11         21         31         41         51
|          |          |          |          |          |
GCACGAGGGA ACAACCTCTC TCTCTSCAGC AGAGAGTGTC ACCTCCTGCT TTAGGACCAT    60
CAAGCTCTGC TAACTGAATC TCATCCTAAT TGCAGGATCA CATTGCAAAG CTTTCACTCT   120
TTCCCACCTT GCTTGTGGGT AAATCTCTTC TGCGGAATCT CAGAAAGTAA AGTTCCATCC   180
TGAGAATATT TCACAAAGAA TTTCCTTAAG AGCTGGACTG GGTCTTGACC CCTGGAATTT   240
AAGAAATTCT TAAAGACAAT GTCAAATATG ATCCAAGAGA AAATGTGATT TGAGTCTGGA   300
GACAATTGTG CATATCGTCT AATAATAAAA ACCCATACTA GCCTATAGAA AACAATATTT   360
GAATAATAAA AACCCATACT AGCCTATAGA AAACAATATT TGAAAGATTG CTACCACTAA   420
AAAGAAAACT ACTACAACTT GACAAGACTG CTGCAAACTT CAATTGGTCA CCACAACTTG   480
ACAAGGTTGC TATAAAACAA GATTGCTACA ACTTCTAGTT TATGTTATAC AGCATATTTC   540
ATTTGGGCTT AATGATGGAG AAAAAGTGTA CCCTGTATTT TCTGGTTCTC TTGCCTTTTT   600
TTATGATTCT TGTTACAGCA GAATTAGAAG AGAGTCCTGA GGACTCAATT CAGTTGGGAG   660
TTACTAGAAA TAAAATCATG ACAGCTCAAT ATGAATGTTA CCAAAAGATT ATGCAAGACC   720
CCATTCAACA AGCAGAAGGC GTTTACTGCA ACAGAACCTG GGATGGATGG CTCTGCTGGA   780
ACGATGTTGC AGCAGGAACT GAATCAATGC AGCTCTGCCC TGATTACTTT CAGGACTTTG   840
ATCCATCAGA AAAAGTTACA AAGATCTGTG ACCAAGATGG AAACTGGTTT AGACATCCAG   900
CAAGCAACAG AACATGGACA AATTATACCC AGTGTAATGT TAACACCCAC GAGAAAGTGA   960
AGACTGCACT AAATTTGTTT TACCTGACCA TAATTGGACA CGGATTGTCT ATTGCATCAC  1020
TGCTTATCTC GCTTGGCATA TTCTTTTATT TCAAGAGCCT AAGTTGCCAA AGGATTACCT  1080
TACACAAAAA TCTGTTCTTC TCATTTGTTT GTAACTCTGT TGTAACAATC ATTCACCTCA  1140
CTGCAGTGGC CAACAACCAG GCCTTAGTAG CCACAAATCC TGTTAGTTGC AAAGTGTCCC  1200
AGTTCATTCA TCTTTACCTG ATGGGCTGTA ATTACTTTTG GATGCTCTGT GAAGGCATTT  1260
ACCTACACAC ACTCATTGTG GTGGCCGTGT TTGCAGAGAA GCAACATTTA ATGTGGTATT  1320
ATTTTCTTGG CTGGGGATTT CCACTGATTC CTGCTTGTAT ACATGCCATT GCTAGAAGCT  1380
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TATATTACAA TGACAATTGC TGGATCAGTT CTGATACCCA TCTCCTCTAC ATTATCCATG  1440
GCCCAATTTG TGCTGCTTTA CTGGTGAATC TTTTTTTCTT GTTAAATATT GTACGCGTTC  1500
TCATCACCAA GTTAAAAGTT ACACACCAAG CGGAATCCAA TCTGTACATG AAAGCTGTGA  1560
GAGCTACTCT TATCTTGGTG CCATTGCTTG GCATTGAATT TGTGCTGATT CCATGGCGAC  1620
CTGAAGGAAA GATTGCAGAG GAGGTATATG ACTACATCAT GCACATCCTT ATGCACTTCC  1680
AGGGTCTTTT GGTCTCTACC ATTTTCTGCT TCTTTAATGG AGAGGTTCAA GCAATTCTGA  1740
GAAGAAACTG GAATCAATAC AAAATCCAAT TTGGAAACAG CTTTTCCAAC TCAGAAGCTC  1800
TTCGTAGTGC GTCTTACACA GTGTCAACAA TCAGTGATGG TCCAGGTTAT AGTCATGACT  1860
GTCCTAGTGA ACACTTAAAT GGAAAAAGCA TCCATGATAT TGAAAATGTT CTCTTAAAAC  1920
CAGAAAATTT ATATAATTGA AAATAGAAGG ATGGTTGTCT CACTGTTTGG TGCTTCTCCT  1980
AACTCAAGGA CTTGGACCCA TGACTCTGTA GCCAGAAGAC TTCAATATTA AATGACTTTG  2040
GGGAATGTCA TAAAGAAGAG CCTTCACATG AAATTAGTAG TGTGTTGATA AGAGTGTAAC  2100
ATCCAGCTCT ATGTGGGAAA AAAGAAATCC TGGTTTGTAA TGTTTGTCAG TAAATACTCC  2160
CACTATGCCT GATGTGACGC TACTAACCTG ACATCACCAA GTGTGGAATT GGAGAAAAGC  2220
ACAATCAACT TTTCTGAGCT GGTGTAAGCC AGTTCCAGCA CACCATTGAT GAATTCAAAC  2280
AAATGGCTGT AAAACTAAAC ATACATGTTG GGCATGATTC TACCCTTATT CSCCCCAAGA  2340
GACCTAGCTA AGGTCTATAA ACATGAAGGG AAAATTAGCT TTTAGTTTTA AAACTCTTTA  2400
TCCCATCTTG ATTGGGGCAG TTGACTTTTT TTTTTTCCCA GAGTGCCGTA GTCCTTTTTG  2460
TAACTACCCT CTCAAATGGA CAATACCAGA AGTGAATTAT CCCTGCTGGC TTTCTTTTCT  2520
CTATGAAAAG CAACTGAGTA CAATTGTTAT GATCTACTCA TTTGCTGACA CATCAGTTAT  2580
ATCTTGTGGC ATATCCATTG TGGAAACTGG ATGAACAGGA TGTATAATAT GCAATCTTAC  2640
TTCTATATCA TTAGGAAAAC ATCTTAGTTG ATGCTACAAA ACACCTTGTC AACCTCTTCC  2700
TGTCTTACCA AACAGTGGGA GGGAATTCCT AGCTGTAAAT ATAAATTTTG CCCTTCCATT  2760
TCTACTGTAT AAACAAATTA GCAATCATTT TATATAAAGA AAATCAATGA AGGATTTCTT  2820
ATTTTCTTGG AATTTTGTAA AAAGAAATTG TGAAAAATGA GCTTGTAAAT ACTCCATTAT  2880
TTTATTTTAT AGTCTCAAAT CAAATACATA CAACCTATGT AATTTTTAAA GCAAATATAT  2940
AATGCAACAA TGTGTGTATG TTAATATCTG ATACTGTATC TGGGCTGATT TTTTAAATAA  3000
AATAGAGTCT GGAATGCT
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Seq ID NO: 337 protein sequence
Protein Accession #: NP_005786.1

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1          11         21         31         41         51
|          |          |          |          |          |
MEKKCTLYFL VLLPFFMILV TAELEESPED SIQLGVTRNK IMTAQYECYQ KIMQDPIQQA    60
EGVYCNRTWD GWLCWNDVAA GTESMQLCPD YFQDFDPSEK VTKICDQDGN WFRHPASNRT   120
WTNYTQCNVN THEKVKTALN LFYLTIIGHG LSIASLLISL GIFFYFKSLS CQRITLHKNL   180
FFSFVCNSVV TIIHLTAVAN NQALVATNPV SCKVSQFIHL YLMGCNYFWM LCEGIYLHTL   240
IVVAVFAEKQ HLMWYYFLGW GFPLIPACIH AIARSLYYND NCWISSDTHL LYIIHGPICA   300
ALLVNLFFLL NIVRVLITKL KVTHQAESNL YMKAVRATLI LVPLLGIEFV LIPWRPEGKI   360
AEEVYDYIMH ILMHFQGLLV STIFCFFNGE VQAILRRNWN QYKIQFGNSF SNSEALRSAS   420
YTVSTISDGP GYSHDCPSEH LNGKSIHDIE NVLLKPENLY N
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Seq ID NO: 338 DNA sequence
Nucleic Acid Accession #: NM_001795
Coding sequence: 25-2379

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1          11         21         31         41         51
|          |          |          |          |          |
GCACGATCTG TTCCTCCTGG GAAGATGCAG AGGCTCATGA TGCTCCTCGC CACATCGGGC    60
GCCTGCCTGG GCCTGCTGGC AGTGGCAGCA GTGGCAGCAG CAGGTGCTAA CCCTGCCCAA   120
CGGGACACCC ACAGCCTGCT GCCCACCCAC CGGCGCCAAA AGAGAGATTG GATTTGGAAC   180
CAGATGCACA TTGATGAAGA GAAAAACACC TCACTTCCCC ATCATGTAGG CAAGATCAAG   240
TCAAGCGTGA GTCGCAAGAA TGCCAAGTAC CTGCTCAAAG GAGAATATGT GGGCAAGGTC   300
TTCCGGGTCG ATGCAGAGAC AGGAGACGTG TTCGCCATTG AGAGGCTGGA CCGGGAGAAT   360
ATCTCAGAGT ACCACCTCAC TGCTGTCATT GTGGACAAGG ACACTGGTGA AAACCTGGAG   420
ACTCCTTCCA GCTTCACCAT CAAAGTTCAT GACGTGAACG ACAACTGGCC TGTGTTCACG   480
CATCGGTTGT TCAATGCGTC CGTGCCTGAG TCGTCGGCTG TGGGGACCTC AGTCATCTCT   540
GTGACAGCAG TGGATGCAGA CGACCCCACT GTGGGAGACC ACGCCTCTGT CATGTACCAA   600
ATCCTGAAGG GGAAAGAGTA TTTTGCCATC GATAATTCTG GACGTATTAT CACAATAACG   660
AAAAGCTTGG ACCGAGAGAA GCAGGCCAGG TATGAGATCG TGGTGGAAGC GCGAGATGCC   720
CAGGGCCTCC GGGGGGACTC GGGCACGGCC ACCGTGCTGG TCACTCTGCA AGACATCAAT   780
GACAACTTCC CCTTCTTCAC CCAGACCAAG TACACATTTG TCGTGCCTGA AGACACCCGT   840
GTGGGCACCT CTGTGGGCTC TCTGTTTGTT GAGGACCCAG ATGAGCCCCA GAACCGGATG   900
ACCAAGTACA GCATCTTGCG GGGCGACTAC CAGGACGCTT TCACCATTGA GACAAACCCC   960
GCCCACAACG AGGGCATCAT CAAGCCCATG AAGCCTCTGG ATTATGAATA CATCCAGCAA  1020
TACAGCTTCA TCGTCGAGGC CACAGACCCC ACCATCGACC TCCGATACAT GAGCCCTCCC  1080
GCGGGAAACA GAGCCCAGGT CATTATCAAC ATCACAGATG TGGACGAGCC CCCCATTTTC  1140
CAGCAGCCTT TCTACCACTT CCAGCTGAAG GAAAACCAGA AGAAGCCTCT GATTGGCACA  1200
GTGCTGGCCA TGGACCCTGA TGCGGCTAGG CATAGCATTG GATACTCCAT CCGCAGGACC  1260
AGTGACAAGG GCCAGTTCTT CCGAGTCACA AAAAAGGGGG ACATTTACAA TGAGAAAGAA  1320
CTGGACAGAG AAGTCTACCC CTGGTATAAC CTGACTGTGG AGGCCAAAGA ACTGGATTCC  1380
ACTGGAACCC CCACAGGAAA AGAATCCATT GTGCAAGTCC ACATTGAAGT TTTGGATGAG  1440
AATGACAATG CCCCGGAGTT TGCCAAGCCC TACCAGCCCA AAGTGTGTGA GAACGCTGTC  1500
CATGGCCAGC TGGTCCTGCA GATCTCCGCA ATAGACAAGG ACATAACACC ACGAAACGTG  1560
AAGTTCAAAT TCACCTTGAA TACTGAGAAC AACTTTACCC TCACGGATAA TCACGATAAC  1620
ACGGCCAACA TCACAGTCAA GTATGGGCAG TTTGACCGGG AGCATACCAA GGTCCACTTC  1680
CTACCCGTGG TCATCTCAGA CAATGGGATG CCAAGTCGCA CGGGCACCAG CACGCTGACC  1740
GTGGCCGTGT GCAAGTGCAA CGAGCAGGGC GAGTTCACCT TCTGCGAGGA TATGGCCGCC  1800
CAGGTGGGCG TGAGCATCCA GGCAGTGGTA GCCATCTTAC TCTGCATCCT CACCATCACA  1860
GTGATCACCC TGCTCATCTT CCTGCGGCGG CGGCTCCGGA AGCAGGCCCG CGCGCACGGC  1920
AAGAGCGTGC CGGAGATCCA CGAGCAGCTG GTCACCTACG ACGAGGAGGG CGGCGGCGAG  1980
ATGGACACCA CCAGCTACGA TGTGTCGGTG CTCAACTCGG TGCGCCGCGG CGGGGCCAAG  2040
CCCCCGCGGC CCGCGCTGGA CGCCCGGCCT TCCCTCTATG CGCAGGTGCA GAAGCCACCG  2100
AGGCACGCGC CTGGGGCACA CGGAGGGCCC GGGGAGATGG CAGCCATGAT CGAGGTGAAG  2160
AAGGACGAGG CGGACCACGA CGGCGACGGC CCCCCCTACG ACACGCTGCA CATCTACGGC  2220
TACGAGGGCT CCGAGTCCAT AGCCGAGTCC CTCAGCTCCC TGGGCACCGA CTCATCCGAC  2280
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TCTGACGTGG ATTACGACTT CCTTAACGAC TGGGGACCCA GGTTTAAGAT GCTGGCTGAG  2340
CTGTACGGCT CGGACCCCCG GGAGGAGCTG CTGTATTAGG CGGCCGAGGT CACTCTGGGC  2400
CTGGGGACCC AAACCCCCTG CAGCCCAGGC CAGTCAGACT CCAGGCACCA CAGCCTCCAA  2460
AAATGGCAGT GACTCCCCAG CCCAGCACCC CTTCCTCGTG GGTCCCAGAG ACCTCATCAG  2520
CCTTGGGATA GCAAACTCCA GGTTCCTGAA ATATCCAGGA ATATATGTCA GTGATGACTA  2580
TTCTCAAATG CTGGCAAATC CAGGCTGGTG TTCTGTCTGG GCTCAGACAT CCACATAACC  2640
CTGTCACCCA CAGACCGCCG TCTAACTCAA AGACTTCCTC TGGCTCCCCA AGGCTGCAAA  2700
GCAAAACAGA CTGTGTTTAA CTGCTGCAGG GTCTTTTTCT AGGGTCCCTG AACGCCCTGG  2760
TAAGGCTGGT GAGGTCCTGG TGCCTATCTG CCTGGAGGCA AAGGCCTGGA CAGCTTGACT  2820
TGTGGGGCAG GATTCTCTGC AGCCCATTCC CAAGGGAGAC TGACCATCAT GCCCTCTCTC  2880
GGGAGCCCTA GCCCTGCTCC AACTCCATAC TCCACTCCAA GTGCCCCACC ACTCCCCAAC  2940
CCCTCTCCAG GCCTGTCAAG AGGGAGGAAG GGGCCCCATG GCAGCTCCTG ACCTTGGGTC  3000
CTGAAGTGAC CTCACTGGCC TGCCATGCCA GTAACTGTGC TGTACTGAGC ACTGAACCAC  3060
ATTCAGGGAA ATGCTTATTA AACCTTGAAG CAACTGTGAA TTCATTCTGG AGGGGCAGTG  3120
GAGATCAGGA GTGACAGATC ACAGGGTGAG GGCCACCTCC ACACCCACCC CCTCTGGAGA  3180
AGGCCTGGAA GAGCTGAGAC CTTGCTTTGA GACTCCTCAG CACCCCTCCA GTTTTGCCTG  3240
AGAAGGGGCA GATGTTCCCG GAGATCAGAA GACGTCTCCC CTTCTCTGCC TCACCTGGTC  3300
GCCAATCCAT GCTCTCTTTC TTTTCTCTGT CTACTCCTTA TCCCTTGGTT TAGAGGAACC  3360
CAAGATGTGG CCTTTAGCAA AACTGACAAT GTCCAAACCC ACTCATGACT GCATGACGGA  3420
GCCGAGCATG TGTCTTTACA CCTCGCTGTT GTCACATCTC AGGGAACTGA CCCTCAGGCA  3480
CACCTTGCAG AAGGAAGGCC CTGCCCTGCC CAACCTCTGT GGTCACCCAT GCATCATTCC  3540
ACTGGAACGT TTCACTGCAA ACACACCTTG GAGAAGTGGC ATCAGTCAAC AGAGAGGGGC  3600
AGGGAAGGAG ACACCAAGCT CACCCTTCGT CATGGACCGA GGTTCCCACT CTGGCAAAGC  3660
CCCTCACACT GCAAGGGATT GTAGATAACA CTGACTTGTT TGTTTTAACC AATAACTAGC  3720
TTCTTATAAT GATTTTTTTA CTAATGATAC TTACAAGTTT CTAGCTCTCA CAGACATATA  3780
GAATAAGGGT TTTTGCATAA TAAGCAGGTT GTTATTTAGG TTAACAATAT TAATTCAGGT  3840
TTTTTAGTTG GAAAAACAAT TCCTGTAACC TTCTATTTTC TATAATTGTA GTAATTGCTC  3900
TACAGATAAT GTCTATATAT TGGCCAAACT GGTGCATGAC AAGTACTGTA TTTTTTTATA  3960
CCTAAATAAA GAAAAATCTT TAGCCTGGGC AACAAAAAAA
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Seq ID NO: 339 Protein sequence
Protein Accession #: NP_001786

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|          |          |          |          |          |
MQRLMMLLAT SGACLGLLAV AAVAAAGANP AQRDTHSLLP THRRQKRDWI WNQMHIDEEK    60
NTSLPHHVGK IKSSVSRKNA KYLLKGEYVG KVFRVDAETG DVFAIERLDR ENISEYHLTA   120
VIVDKDTGEN LETPSSFTIK VHDVNDNWPV FTHRLFNASV PESSAVGTSV ISVTAVDADD   180
PTVGDHASVM YQILKGKEYF AIDNSGRIIT ITKSLDREKQ ARYEIVVEAR DAQGLRGDSG   240
TATVLVTLQD INDNFPFFTQ TKYTFVVPED TRVGTSVGSL FVEDPDEPQN RMTKYSILRG   300
DYQDAFTIET NPAHNEGIIK PMKPLDYEYI QQYSFIVEAT DPTIDLRYMS PPAGNRAQVI   360
INITDVDEPP IFQQPFYHFQ LKENQKKPLI GTVLAMDPDA ARHSIGYSIR RTSDKGQFFR   420
VTKKGDIYNE KELDREVYPW YNLTVEAKEL DSTGTPTGKE SIVQVHIEVL DENDNAPEFA   480
KPYQPKVCEN AVHGQLVLQI SAIDKDITPR NVKFKFTLNT ENNFTLTDNH DNTANITVKY   540
GQFDREHTKV HFLPVVISDN GMPSRTGTST LTVAVCKCNE QGEFTFCEDM AAQVGVSIQA   600
VVAILLCILT ITVITLLIFL RRRLRKQARA HGKSVPEIHE QLVTYDEEGG GEMDTTSYDV   660
SVLNSVRRGG AKPPRPALDA RPSLYAQVQK PPRHAPGAHG GPGEMAAMIE VKKDEADHDG   720
DGPPYDTLHI YGYEGSESIA ESLSSLGTDS SDSDVDYDFL NDWGPRFKML AELYGSDPRE   780
ELLY
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Seq ID NO: 340 DNA sequence
Nucleic Acid Accession #: NM_003088
Coding sequence: 112-1593

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AACGGCACAG CCGAGGCGGT GCAGATCCAG TTCGGCCTCA TCAACTGCGG CAACAAGTAC   180
CTGACGGCCG AGGCGTTCGG GTTCAAGGTG AACGCGTCCG CCAGCAGCCT GAAGAAGAAG   240
CAGATCTGGA CGCTGGAGCA GCCCCCTGAC GAGGCGGGCA GCGCGGCCGT GTGCCTGCGC   300
AGCCACCTGG GCCGCTACCT GGCGGCGGAC AAGGACGGCA ACGTGACCTG CGAGCGCGAG   360
GTGCCCGGTC CCGACTGCCG TTTCCTCATC GTGGCGCACG ACGACGGTCG CTGGTCGCTG   420
CAGTCCGAGG CGCACCGGCG CTACTTCGGC GGCACCGAGG ACCGCCTGTC CTGCTTCGCG   480
CAGACGGTGT CCCCCGCCGA GAAGTGGAGC GTGCACATCG CCATGCACCC TCAGGTCAAC   540
ATCTACAGTG TCACCCGTAA GCGCTACGCG CACCTGAGCG CGCGGCCGGC CGACGAGATC   600
GCCGTGGACC GCGACGTGCC CTGGGGCGTC GACTCGCTCA TCACCCTCGC CTTCCAGGAC   660
CAGCGCTACA GCGTGCAGAC CGCCGACCAC CGCTTCCTGC GCCACGACGG GCGCCTGGTG   720
GCGCGCCCCG AGCCGGCCAC TGGCTACACG CTGGAGTTCC GCTCCGGCAA GGTGGCCTTC   780
CGCGACTGCG AGGGCCGTTA CCTGGCGCCG TCGGGGCCCA GCGGCACGCT CAAGGCGGGC   840
AAGGCCACCA AGGTGGGCAA GGACGAGCTC TTTGCTCTGG AGCAGAGCTG CGCCCAGGTC   900
GTGCTGCAGG CGGCCAACGA GAGGAACGTG TCCACGCGCC AGGGTATGGA CCTGTCTGCC   960
AATCAGGACG AGGAGACCGA CCAGGAGACC TTCCAGCTGG AGATCGACCG CGACACCAAA  1020
AAGTGTGCCT TCCGTACCCA CACGGGCAAG TACTGGACGC TGACGGCCAC CGGGGGCGTG  1080
CAGTCCACCG CCTCCAGCAA GAATGCCAGC TGCTACTTTG ACATCGAGTG GCGTGACCGG  1140
CGCATCACAC TGAGGGCGTC CAATGGCAAG TTTGTGACCT CCAAGAAGAA TGGGCAGCTG  1200
GCCGCCTCGG TGGAGACAGC AGGGGACTCA GAGCTCTTCC TCATGAAGCT CATCAACCGC  1260
CCCATCATCG TGTTCCGCGG GGAGCATGGC TTCATCGGCT GCCGCAAGGT CACGGGCACC  1320
CTGGACGCCA ACCGCTCCAG CTATGACGTC TTCCAGCTGG AGTTCAACGA TGGCGCCTAC  1380
AACATCAAAG ACTCCACAGG CAAATACTGG ACGGTGGGCA GTGACTCCGC GGTCACCAGC  1440
AGCGGCGACA CTCCTGTGGA CTTCTTCTTC GAGTTCTGCG ACTATAACAA GGTGGCCATC  1500
AAGGTGGGCG GGCGCTACCT GAAGGGCGAC CACGCAGGCG TCCTGAAGGC CTCGGCGGAA  1560
ACCGTGGACC CCGCCTCGCT CTGGGAGTAC TAGGGCCGGC CCGTCCTTCC CCGCCCCTGC  1620
CCACATGGCG GCTCCTGCCA ACCCTCCCTG CTAACCCCTT CTCCGCCAGG TGGGCTCCAG  1680
GGCGGGAGGC AAGCCCCCTT GCCTTTCAAA CTGGAAACCC CAGAGAAAAC GGTGCCCCCA  1740
CCTGTCGCCC CTATGGACTC CCCACTCTCC CCTCCGCCCG GGTTCCCTAC TCCCCTCGGG  1800
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TCAGCGGCTG CGGCCTGGCC CTGGGAGGGA TTTCAGATGC CCCTGCCCTC TTGTCTGCCA  1860
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GAAGCGGCTA AGGGACGGTT GGGGGCTGGG AGCCCTGGGC GTGTAGTGTA ACTGGAATCT  1980
TTTGCCTCTC CCAGCCACCT CCTCCCAGCC CCCCAGGAGA GCTGGGCACA TGTCCCAAGC  2040
CTGTCAGTGG CCCTCCCTGG TGCACTGTCC CCGAAACCCC TGCTTGGGAA GGGAAGCTGT  2100
CGGGAGGGCT AGGACTGACC CTTGTGGTGT TTTTTTGGGT GGTGGCTGGA AACAGCCCCT  2160
CTCCCACGTG GGAGAGGCTC AGCCTGGCTC CCTTCCCTGG AGCGGCAGGG CGTGACGGCC  2220
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GGGCCGTCTT CCTCCTGTCT CTTTCCTTTC ACCCTAGCCT GACTGGAAGC AGAAAATGAC  2340
CAAATCAGTA TTTTTTTTAA TGAAATATTA TTGCTGGAGG CGTCCCAGGC AAGCCTGGCT  2400
GTAGTAGCGA GTGATCTGGC GGGGGGCGTC TCAGCACCCT CCCCAGGGGG TGCATCTCAG  2460
CCCCCTCTTT CCGTCCTTCC CGTCCAGCCC CAGCCCTGGG CCTGGGCTGC CGACACCTGG  2520
GCCAGAGCCC CTGCTGTGAT TGGTGCTCCC TGGGCCTCCC GGGTGGATGA AGCCAGGCGT  2580
CGCCCCCTCC GGGAGCCCTG GGGTGAGCCG CCGGGGCCCC CCTGCTGCCA GCCTCCCCCG  2640
TCCCCAACAT GCATCTCACT CTGGGTGTCT TGGTCTTTTA TTTTTTGTAA GTGTCATTTG  2700
TATAACTCTA AACGCCCATG ATAGTAGCTT CAAACTGGAA ATAGCGAAAT AAAATAACTC  2760
AGTCTGC
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Seq ID NO: 341 Protein sequence
Protein Accession #: NP_003079

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CLRSHLGRYL AADKDGNVTC EREVPGPDCR FLIVAHDDGR WSLQSEAHRR YFGGTEDRLS   120
CFAQTVSPAE KWSVHIAMHP QVNIYSVTRK RYAHLSARPA DEIAVDRDVP WGVDSLITLA   180
FQDQRYSVQT ADHRFLRHDG RLVARPEPAT GYTLEFRSGK VAFRDCEGRY LAPSGPSGTL   240
KAGKATKVGK DELFALEQSC AQVVLQAANE RNVSTRQGMD LSANQDEETD QETFQLEIDR   300
DTKKCAFRTH TGKYWTLTAT GGVQSTASSK NASCYFDIEW RDRRITLRAS NGKFVTSKKN   360
GQLAASVETA GDSELFLMKL INRPIIVFRG EHGFIGCRKV TGTLDANRSS YDVFQLEFND   420
GAYNIKDSTG KYWTVGSDSA VTSSGDTPVD FFFEFCDYNK VAIKVGGRYL KGDHAGVLKA   480
SAETVDPASL WEY
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Seq ID NO: 342 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence:660..1705

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CCGGGTTGGG GAAGCCAGCT GTAGAGGGCG GTGACCGCGC TCCAGACACA GCTCTGCGTC   180
CTCGAGCGGG ACAGATCCAA GTTGGGAGCA GCTCTGCGTG CGGGGCCTCA GAGAATGAGG   240
CCGGCGTTCG CCCTGTGCCT CCTCTGGCAG GCGCTCTGGC CCGGGCCGGG CGGCGGCGAA   300
CACCCCACTG CCGACCGTGC TGGCTGCTCG GCCTCGGGGG CCTGCTACAG CCTGCACCAC   360
GCTACCATGA AGCGGCAGGC GGCCGAGGAG GCCTGCATCC TGCGAGGTGG GGCGCTCAGC   420
ACCGTGCGTG CGGGCGCCGA GCTGCGCGCT GTGCTCGCGC TCCTGCGGGC AGGCCCAGGG   480
CCCGGAGGGG GCTCCAAAGA CCTGCTGTTC TGGGTCGCAC TGGAGCGCAG GCGTTCCCAC   540
TGCACCCTGG AGAACGAGCC TTTGCGGGGT TTCTCCTGGC TGTCCTCCGA CCCCGGCGGT   600
CTCGAAAGCG ACACGCTGCA GTGGGTGGAG GAGCCCCAAC GCTCCTGCAC CGCGCGGAGA   660
TGCGCGGTAC TCCAGGCCAC CGGTGGGGTC GAGCCCGCAG CTGGAAGGAG ATGCGATGCC   720
ACCTGCGCGC CAACGGCTAC CTGTGCAAGT ACCAGTTTGA GGTCTTGTGT CCTGCGCCGC   780
GCCCCGGGGC CGCCTCTAAC TTGAGCTATC GCGCGCCCTT CCAGCTGCAC AGCGCCGCTC   840
TGGACTTCAG TCCACCTGGG ACCGAGGTGA GTGCGCTCTG CCGGGGACAG CTCCCGATCT   900
CAGTTACTTG CATCGCGGAC GAAATCGGCG CTCGCTGGGA CAAACTCTCG GGCGATGTGT   960
TGTGTCCCTG CCCCGGGAGG TACCTCCGTG CTGGCAAATG CGCAGAGCTC CCTAACTGCC  1020
TAGACGACTT GGGAGGCTTT GCCTGCGAAT GTGCTACGGG CTTCGAGCTG GGGAAGGACG  1080
GCCGCTCTTG TGTGACCAGT GGGGAAGGAC AGCCGACCCT TGGGGGGACC GGGGTGCCCA  1140
CCAGGCGCCC GCCGGCCACT GCAACCAGCC CCGTGCCGCA GAGAACATGG CCAATCAGGG  1200
TCGACGAGAA GCTGGGAGAG ACACCACTTG TCCCTGAACA AGACAATTCA GTAACATCTA  1260
TTCCTGAGAT TCCTCGATGG GGATCACAGA GCACGATGTC TACCCTTCAA ATGTCCCTTC  1320
AAGCCGAGTC AAAGGCCACT ATCACCCCAT CAGGGAGCGT GATTTCCAAG TTTAATTCTA  1380
CGACTTCCTC TGCCACTCCT CAGGCTTTCG ACTCCTCCTC TGCCGTGGTC TTCATATTTG  1440
TGAGCACAGC AGTAGTAGTG TTGGTGATCT TGACCATGAC AGTACTGGGG CTTGTCAAGC  1500
TCTGCTTTCA CGAAAGCCCC TCTTCCCAGC CAAGGAAGGA GTCTATGGGC CCGCCGGGCC  1560
TGGAGAGTGA TCCTGAGCCC GCTGCTTTGG GCTCCAGTTC TGCACATTGC ACAAACAATG  1620
GGGTGAAAGT CGGGGACTGT GATCTGCGGG ACAGAGCAGA GGGTGCCTTG CTGGCGGAGT  1680
CCCCTCTTGG CTCTAGTGAT GCATAG
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Seq ID NO: 343 Protein sequence
Protein Accession #: FGENESH predicted

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1          11         21         31         41         51
|          |          |          |          |          |
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IARIYKELEQ IYKKKKPTKT LRTHFLSRPK GNCWPLGPRG DSWQLGGPSG ARAEGKGGGT   120
GLGKPAVEGG DRAPDTALRP RAGQIQVGSS SACGASENEA GVRPVPPLAG ALARAGRRRT   180
PHCRPCWLLG LGGLLQPAPR YHEAAGGRGG LHPARWGAQH RACGRRAARC ARAPAGRPRA   240
RRGLQRPAVL GRTGAQAFPL HPGERAFAGF LLAVLRPRRS RKRHAAVGGG APTLLHRAEM   300
RGTPGHRWGR ARSWKEMRCH LRANGYLCKY QFEVLCPAPR PGAASNLSYR APFQLHSAAL   360
DFSPPGTEVS ALCRGQLPIS VTCIADEIGA RWDKLSGDVL CPCPGRYLRA GKCAELPNCL   420
DDLGGFACEC ATGFELGKDG RSCVTSGEGQ PTLGGTGVPT RRPPATATSP VPQRTWPIRV   480
DEKLGETPLV PEQDNSVTSI PEIPRWGSQS TMSTLQMSLQ AESKATITPS GSVISKFNST   540
TSSATPQAFD SSSAVVFIFV STAVVVLVIL TMTVLGLVKL CFHESPSSQP RKESMGPPGL   600
ESDPEPAALG SSSAHCTNNG VKVGDCDLRD RAEGALLAES PLGSSDA
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Seq ID NO: 344 DNA sequence
Nucleic Acid Accession #: NM_012072
Coding sequence: 149-2107

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CCCCTTGGGG CCCAGCTGGG AGCCGAGATA GAAGCTCCTG TCGCCGCTGG GCTTCTCGCC   120
TCCCGCAGAG GGCCACACAG AGACCGGGAT GGCCACCTCC ATGGGCCTGC TGCTGCTGCT   180
GCTGCTGCTC CTGACCCAGC CCGGGGCGGG GACGGGAGCT GACACGGAGG CGGTGGTCTG   240
CGTGGGGACC GCCTGCTACA CGGCCCACTC GGGCAAGCTG AGCGCTGCCG AGGCCCAGAA   300
CCACTGCAAC CAGAACGGGG GCAACCTGGC CACTGTGAAG AGCAAGGAGG AGGCCCAGCA   360
CGTCCAGCGA GTACTGGCCC AGCTCCTGAG GCGGGAGGCA GCCCTGACGG CGAGGATGAG   420
CAAGTTCTGG ATTGGGCTCC AGCGAGAGAA GGGCAAGTGC CTGGACCCTA GTCTGCCGCT   480
GAAGGGCTTC AGCTGGGTGG GCGGGGGGGA GGACACGCCT TACTCTAACT GGCACAAGGA   540
GCTCCGGAAC TCGTGCATCT CCAAGCGCTG TGTGTCTCTG CTGCTGGACC TGTCCCAGCC   600
GCTCCTTCCC AACCGCCTGC CCAAGTGGTC TGAGGGCCCC TGTGGGAGCC CAGGCTCCCC   660
CGGAAGTAAC ATTGAGGGCT TCGTGTGCAA GTTCAGCTTC AAAGGCATGT GCCGGCCTCT   720
GGCCCTGGGG GGCCCAGGTC AGGTGACCTA CACCACCCCC TTCCAGACCA CCAGTTCCTC   780
CTTGGAGGCT GTGCCCTTTG CCTCTGCGGC CAATGTAGCC TGTGGGGAAG GTGACAAGGA   840
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CAGCTCGGGC CCCCTCTGTG TCAGCCCCAA GTATGGCTGC AACTTCAACA ATGGGGGCTG   960
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CCGGCTGCTG GATGACCTGG TGACCTGTGC CTCTCGAAAC CCTTGCAGCT CCAGCCCATG  1080
TCGTGGGGGG GCCACGTGCG TCCTGGGACC CCATGGGAAA AACTACACGT GCCGCTGCCC  1140
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CTCCCCCTGT GCCCAGGAGT GTGTCAACAC CCCTGGGGGC TTCCGCTGCG AATGCTGGGT  1260
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CGCCACAGCT GCCTCTGGCC CCCAGGAGCC TGCAGGTGGG GACTCCTCCG TGGCCACACA  1860
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GAAGAGGGAG GAGAAGAAGG AGAAGAAGCC CCAGAATGCG GCAGACAGTT ACTCCTGGGT  2040
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TGTTTGATGT TCCTGAAGTG GAAGCTGTGT GTTGGCGTGC CACGGTGGGG ATTTCGTGAC  2340
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GTAATCACTT CATGAATGCT AAATGAGAAT GTAAGTATTT TTAAATGTGT GTATTTCAAA  6480
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ATGTTTCCCA AACTGTGAGG AGGGAAGGCT CAGAGATCGA GCTTCTCCTC TGAGTTCTAA  6600
CAAAATGGTG CTTTGAGGGT CAGCCTTTAG GAAGGTGCAG CTTTGTTGTC CTTTGAGCTT  6660
TCTGTTATGT GCCTATCCTA ATAAACTCTT AAACACATT
```

Seq ID NO: 345 Protein sequence
Protein Accession #: NP_036204

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1          11         21         31         41         51
|          |          |          |          |          |
MATSMGLLLL LLLLLTQPGA GTGADTEAVV CVGTACYTAH SGKLSAAEAQ NHCNQNGGNL    60
ATVKSKEEAQ HVQRVLAQLL RREAALTARM SKFWIGLQRE KGKCLDPSLP LKGFSWVGGG   120
EDTPYSNWHK ELRNSCISKR CVSLLLDLSQ PLLPNRLPKW SEGPCGSPGS PGSNIEGFVC   180
KFSFKGMCRP LALGGPGQVT YTTPFQTTSS SLEAVPFASA ANVACGEGDK DETQSHYFLC   240
KEKAPDVFDW GSSGPLCVSP KYGCNFNNGG CHQDCFEGGD GSFLCGCRPG FRLLDDLVTC   300
ASRNPCSSSP CRGGATCVLG PHGKNYTCRC PQGYQLDSSQ LDCVDVDECQ DSPCAQECVN   360
TPGGFRCECW VGYEPGGPGE GACQDVDECA LGRSPCAQGC TNTDGSFHCS CEEGYVLAGE   420
DGTQCQDVDE CVGPGGPLCD SLCFNTQGSF HCGCLPGWVL APNGVSCTMG PVSLGPPSGP   480
PDEEDKGEKE GSTVPRAATA SPTRGPEGTP KATPTTSRPS LSSDAPITSA PLKMLAPSGS   540
SGVWREPSIH HATAASGPQE PAGGDSSVAT QNNDGTDGQK LLLFYILGTV VAILLLLALA   600
LGLLVYRKRR AKREEKKEKK PQNAADSYSW VPERAESRAM ENQYSPTPGT DC
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Seq ID NO: 346 DNA sequence
Nucleic Acid Accession #: Z31560
Coding sequence: <1-966

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1          11         21         31         41         51
|          |          |          |          |          |
CACAGCGCCC GCATGTACAA CATGATGGAG ACGGAGCTGA AGCCGCCGGG CCCGCAGCAA    60
ACTTCGGGGG GCGGCGGCGG CAACTCCACC GCGGCGGCGG CCGGCGGCAA CCAGAAAAAC   120
AGCCCGGACC GCGTCAAGCG GCCCATGAAT GCCTTCATGG TGTGGTCCCG CGGGCAGCGG   180
CGCAAGATGG CCCAGGAGAA CCCCAAGATG CACAACTCGG AGATCAGCAA GCGCCTGGGC   240
GCCGAGTGGA AACTTTTGTC GGAGACGGAG AAGCGGCCGT TCATCGACGA GGCTAAGCGG   300
CTGCGAGCGC TGCACATGAA GGAGCACCCG GATTATAAAT ACCGGCCCCG GCGGAAAACC   360
AAGACGCTCA TGAAGAAGGA TAAGTACACG CTGCCCGGCG GGCTGCTGGC CCCCGGCGGC   420
AATAGCATGG CGAGCGGGGT CGGGGTGGGC GCCGGCCTGG GCGCGGGCGT GAACCAGCGC   480
ATGGACAGTT ACGCGCACAT GAACGGCTGG AGCAACGGCA GCTACAGCAT GATGCAGGAC   540
CAGCTGGGCT ACCCGCAGCA CCCGGGCCTC AATGCGCACG GCGCAGCGCA GATGCAGCCC   600
ATGCACCGCT ACGACGTGAG CGCCCTGCAG TACAACTCCA TGACCAGCTC GCAGACCTAC   660
ATGAACGGCT CGCCCACCTA CAGCATGTCC TACTCGCAGC AGGGCACCCC TGGCATGGCT   720
CTTGGCTCCA TGGGTTCGGT GGTCAAGTCC GAGGCCAGCT CCAGCCCCCC TGTGGTTACC   780
TCTTCCTCCC ACTCCAGGGC GCCCTGCCAG GCCGGGGACC TCCGGGACAT GATCAGCATG   840
TATCTCCCCG GCGCCGAGGT GCCGGAACCC GCCGCCCCCA GCAGACTTCA CATGTCCCAG   900
CACTACCAGA GCGGCCCGGT GCCCGGCACG GCCATTAACG GCACACTGCC CCTCTCACAC   960
ATGTGAGGGC CGGACAGCGA ACTGGAGGGG GGAGAAATTT TCAAAGAAAA ACGAGGGAAA  1020
TGGGAGGGGT GCAAAAGAGG AGAGTAAGAA ACAGCATGGA GAAAACCCGG TACGCTCAAA  1080
AAAAA
```

Seq ID NO: 347 Protein sequence
Protein Accession #: CAA83435

```
1          11         21         31         41         51
|          |          |          |          |          |
HSARMYNMME TELKPPGPQQ TSGGGGGNST AAAAGGNQKN SPDRVKRPMN AFMVWSRGQR    60
RKMAQENPKM HNSEISKRLG AEWKLLSETE KRPFIDEAKR LRALHMKEHP DYKYRPRRKT   120
KTLMKKDKYT LPGGLLAPGG NSMASGVGVG AGLGAGVNQR MDSYAHMNGW SNGSYSMMQD   180
QLGYPQHPGL NAHGAAQMQP MHRYDVSALQ YNSMTSSQTY MNGSPTYSMS YSQQGTPGMA   240
LGSMGSVVKS EASSSPPVVT SSSHSRAPCQ AGDLRDMISM YLPGAEVPEP AAPSRLHMSQ   300
HYQSGPVPGT AINGTLPLSH M
```

Seq ID NO: 348 DNA sequence
Nucleotide Accession #: NM_002638
Coding sequence: 120-473

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1          11         21         31         41         51
|          |          |          |          |          |
CAATACAGCT AAGGAATTAT CCCTTGTAAA TACCACAGAC CCGCCCTGGA GCCAGGCCAA    60
GCTGGACTGC ATAAAGATTG GTATGGCCTT AGCTCTTAGC CAAACACCTT CCTGACACCA   120
TGAGGGCCAG CAGCTTCTTG ATCGTGGTGG TGTTCCTCAT CGCTGGGACG CTGGTTCTAG   180
AGGCAGCTGT CACGGGAGTT CCTGTTAAAG GTCAAGACAC TGTCAAAGGC CGTGTTCCAT   240
TCAATGGACA AGATCCCGTT AAAGGACAAG TTTCAGTTAA AGGTCAAGAT AAAGTCAAAG   300
CGCAAGAGCC AGTCAAAGGT CCAGTCTCCA CTAAGCCTGG CTCCTGCCCC ATTATCTTGA   360
TCCGGTGCGC CATGTTGAAT CCCCCTAACC GCTGCTTGAA AGATACTGAC TGCCCAGGAA   420
TCAAGAAGTG CTGTGAAGGC TCTTGCGGGA TGGCCTGTTT CGTTCCCCAG TGAAGGGAGC   480
CGGTCCTTGC TGCACCTGTG CCGTCCCCAG AGCTACAGGC CCCATCTGGT CCTAAGTCCC   540
TGCTGCCCTT CCCCTTCCCA CACTGTCCAT TCTTCCTCCC ATTCAGGATG CCCACGGCTG   600
GAGCTGCCTC TCTCATCCAC TTTCCAATAA A
```

Seq ID NO: 349 Protein sequence:
Protein Accession #: NP_002629

```
1          11         21         31         41         51
|          |          |          |          |          |
MRASSFLIVV VFLIAGTLVL EAAVTGVPVK GQDTVKGRVP FNGQDPVKGQ VSVKGQDKVK    60
AQEPVKGPVS TKPGSCPIIL IRCAMLNPPN RCLKDTDCPG IKKCCEGSCG MACFVPQ
```

Seq ID NO: 350 DNA sequence
Nucleic Acid Accession #: NM_007183
Coding sequence: 75-2468

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1          11         21         31         41         51
|          |          |          |          |          |
GAATTCCGGA CAGGACGTGA AGATAGTTGG GTTTGGAGGC GGCCGCCAGG CCCAGGCCCG    60
GTGGACCTGC CGCCATGCAG GACGGTAACT TCCTGCTGTC GGCCCTGCAG CCTGAGGCCG   120
GCGTGTGCTC CCTGGCGCTG CCCTCTGACC TGCAGCTGGA CCGCCGGGGC GCCGAGGGGC   180
CGGAGGCCGA GCGGCTGCGG GCAGCCCGCG TCCAGGAGCA GGTCCGCGCC CGCCTCTTGC   240
AGCTGGGACA GCAGCCGCGG CACAACGGGG CCGCTGAGCC CGAGCCTGAG GCCGAGACTG   300
CCAGAGGCAC ATCCAGGGGG CAGTACCACA CCCTGCAGGC TGGCTTCAGC TCTCGCTCTC   360
AGGGCCTGAG TGGGGACAAG ACCTCGGGCT TCCGGCCCAT CGCCAAGCCG GCCTACAGCC   420
CAGCCTCCTG GTCCTCCCGC TCCGCCGTGG ATCTGAGCTG CAGTCGGAGG CTGAGTTCAG   480
CCCACAATGG GGGCAGCGCC TTTGGGGCCG CTGGGTACGG GGGTGCCCAG CCCACCCCTC   540
CCATGCCCAC CAGGCCCGTG TCCTTCCATG AGCGCGGTGG GGTTGGGAGC CGGGCCGACT   600
ATGACACACT CTCCCTGCGC TCGCTGCGGC TGGGGCCCGG GGGCCTGGAC GACCGCTACA   660
GCCTGGTGTC TGAGCAGCTG GAGCCCGCGG CCACCTCCAC CTACAGGGCC TTTGCGTACG   720
AGCGCCAGGC CAGCTCCAGC TCCAGCCGGG CAGGGGGGCT GGACTGGCCC GAGGCCACTG   780
AGGTTTCCCC GAGCCGGACC ATCCGTGCCC CTGCCGTGCG GACCCTGCAG CGATTCCAGA   840
GCAGCCACCG GAGCCGCGGG GTAGGCGGGG CAGTGCCGGG GGCCGTCCTG GAGCCAGTGG   900
CTCGAGCGCC ATCTGTGCGC AGCCTCAGCC TCAGCCTGGC TGACTCGGGC CACCTGCCGG   960
ACGTGCATGG GTTCAACAGC TACGGTAGCC ACCGAACCCT GCAGAGACTC AGCAGCGGTT  1020
TTGATGACAT TGACCTGCCC TCAGCAGTCA AGTACCTCAT GGCTTCAGAC CCCAACCTGC  1080
AGGTGCTGGG AGCGGCCTAC ATCCAGCACA AGTGCTACAG CGATGCAGCC GCCAAGAAGC  1140
AGGCCCGCAG CCTTCAGGCC GTGCCTAGGC TGGTGAAGCT CTTCAACCAC GCCAACCAGG  1200
AAGTGCAGCG CCATGCCACA GGTGCCATGC GCAACCTCAT CTACGACAAC GCTGACAACA  1260
AGCTGGCCCT GGTGGAGGAG AACGGGATCT TCGAGCTGCT GCGGACACTG CGGGAGCAGG  1320
ATGATGAGCT TCGCAAAAAT GTCACAGGGA TCCTGTGGAA CCTTTCATCC AGCGACCACC  1380
TGAAGGACCG CCTGGCCAGA GACACGCTGG AGCAGCTCAC GGACCTGGTG TTGAGCCCCC  1440
TGTCGGGGGC TGGGGGTCCC CCCCTCATCC AGCAGAACGC CTCGGAGGCG GAGATCTTCT  1500
ACAACGCCAC CGGCTTCCTC AGGAACCTCA GCTCAGCCTC TCAGGCCACT CGCCAGAAGA  1560
TGCGGGAGTG CCACGGGCTG GTGGACGCCC TGGTCACCTC TATCAACCAC GCCCTGGACG  1620
CGGGCAAATG CGAGGACAAG AGCGTGGAGA ACGCGGTGTG CGTCCTGCGG AACCTGTCCT  1680
ACCGCCTCTA CGACGAGATG CCGCCGTCCG CGCTGCAGCG GCTGGAGGGT CGCGGCCGCA  1740
GGGACCTGGC GGGGGCGCCG CCGGGAGAGG TCGTGGGCTG CTTCACGCCG CAGAGCCGGC  1800
GGCTGCGCGA GCTGCCCCTC GCCGCCGATG CGCTCACCTT CGCGGAGGTG TCCAAGGACC  1860
CCAAGGGCCT CGAGTGGCTG TGGAGCCCCC AGATCGTGGG GCTGTACAAC CGGCTGCTGC  1920
AGCGCTGCGA GCTCAACCGG CACACGACGG AGGCGGCCGC CGGGGCGCTG CAGAACATCA  1980
CGGCAGGCGA CCGCAGGTGG GCGGGGGTGC TGAGCCGCCT GGCCCTGGAG CAGGAGCGTA  2040
TTCTGAACCC CCTGCTAGAC CGTGTCAGGA CCGCCGACCA CCACCAGCTG CGCTCACTGA  2100
CTGGCCTCAT CCGAAACCTG TCTCGGAACG CTAGGAACAA GGACGAGATG TCCACGAAGG  2160
TGGTGAGCCA CCTGATCGAG AAGCTGCCAG GCAGCGTGGG TGAGAAGTCG CCCCCAGCCG  2220
AGGTGCTGGT CAACATCATA GCTGTGCTCA ACAACCTGGT GGTGGCCAGC CCCATCGCTG  2280
CCCGAGACCT GCTGTATTTT GACGGACTCC GAAAGCTCAT CTTCATCAAG AAGAAGCGGG  2340
ACAGCCCCGA CAGTGAGAAG TCCTCCCGGG CAGCATCCAG CCTCCTGGCC AACCTGTGGC  2400
AGTACAACAA GCTCCACCGT GACTTTCGGG CGAAGGGCTA TCGGAAGGAG GACTTCCTGG  2460
GCCCATAGGT GAAGCCTTCT GGAGGAGAAG GTGACGTGGC CCAGCGTCCA AGGGACAGAC  2520
TCAGCTCCAG GCTGCTTGGC AGCCCAGCCT GGAGGAGAAG GCTAATGACG GAGGGGCCCC  2580
TCGCTGGGGC CCCTGTGTGC ATCTTTGAGG GTCCTGGGCC ACCAGGAGGG GCAGGGTCTT  2640
ATAGCTGGGG ACTTGGCTTC CGCAGGGCAG GGGGTGGGGC AGGGCTCAAG GCTGCTCTGG  2700
TGTATGGGGT GGTGACCCAG TCACATTGGC AGAGGTGGGG GTTGGCTGTG GCCTGGCAGT  2760
ATCTTGGGAT AGCCAGCACT GGGAATAAAG ATGGCCATGA ACAGTCACAA AAAAAAAAAA  2820
AAAAGGAATT C
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Seq ID NO: 351 Protein sequence
Protein Accession #: NP_009114.1

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1          11         21         31         41         51
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```
MQDGNFLLSA LQPEAGVCSL ALPSDLQLDR RGAEGPEAER LRAARVQEQV RARLLQLGQQ    60
PRHNGAAEPE PEAETARGTS RGQYHTLQAG FSSRSQGLSG DKTSGFRPIA KPAYSPASWS   120
SRSAVDLSCS RRLSSAHNGG SAFGAAGYGG AQPTPPMPTR PVSFHERGGV GSRADYDTLS   180
LRSLRLGPGG LDDRYSLVSE QLEPAATSTY RAFAYERQAS SSSSRAGGLD WPEATEVSPS   240
RTIRAPAVRT LQRFQSSHRS RGVGGAVPGA VLEPVARAPS VRSLSLSLAD SGHLPDVHGF   300
NSYGSHRTLQ RLSSGFDDID LPSAVKYLMA SDPNLQVLGA AYIQHKCYSD AAAKKQARSL   360
QAVPRLVKLF NHANQEVQRH ATGAMRNLIY DNADNKLALV EENGIFELLR TLREQDDELR   420
KNVTGILWNL SSSDHLKDRL ARDTLEQLTD LVLSPLSGAG GPPLIQQNAS EAEIFYNATG   480
FLRNLSSASQ ATRQKMRECH GLVDALVTSI NHALDAGKCE DKSVENAVCV LRNLSYRLYD   540
EMPPSALQRL EGRGRRDLAG APPGEVVGCF TPQSRRLREL PLAADALTFA EVSKDPKGLE   600
WLWSPQIVGL YNRLLQRCEL NRHTTEAAAG ALQNITAGDR RWAGVLSRLA LEQERILNPL   660
LDRVRTADHH QLRSLTGLIR NLSRNARNKD EMSTKVVSHL IEKLPGSVGE KSPPAEVLVN   720
IIAVLNNLVV ASPIAARDLL YFDGLRKLIF IKKKRDSPDS EKSSRAASSL LANLWQYNKL   780
HRDFRAKGYR KEDFLGP
```

Seq ID NO: 352 DNA sequence
Nucleic Acid Accession #: M31469
Coding sequence: 1-651

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGGCTGCGC AGGGAGAGCC CCAGGTCCAG TTCAAACTTG TATTGGTTGG TGATGGTGGT    60
ACTGGAAAAA CGACCTTCGT GAAACGTCAT TTGACTGGTG AATTTGAGAA GAAGTATGTA   120
GCCACCTTGG GTGTTGAGGT TCATCCCCTA GTGTTCCACA CCAACAGAGG ACCTATTAAG   180
TTCAATGTAT GGGACACAGC CGGCCAGGAG AAATTCGGTG GACTGAGAGA TGGCTATTAT   240
ATCCAAGCCC AGTGTGCCAT CATAATGTTT GATGTAACAT CGAGAGTTAC TTACAAGAAT   300
GTGCCTAACT GGCATAGAGA TCTGGTACGA GTGTGTGAAA ACATCCCCAT TGTGTTGTGT   360
GGCAACAAAG TGGATATTAA GGACAGGAAA GTGAAGGCGA AATCCATTGT CTTCCACCGA   420
AAGAAGAATC TTCAGTACTA CGACATTTCT GCCAAAAGTA ACTACAACTT TGAAAAGCCC   480
TTCCTCTGGC TTGCTAGGAA GCTCATTGGA GACCCTAACT TGGAATTTGT TGCCATGCCT   540
GCTCTCGCCC CACCAGAAGT TGTCATGGAC CCAGCTTTGG CAGCACAGTA TGAGCACGAC   600
TTAGAGGTTG CTCAGACAAC TGCTCTCCCG GATGAGGATG ATGACCTGTG A
```

Seq ID NO: 353 Protein sequence
Protein Accession #: AAA36546

```
1          11         21         31         41         51
|          |          |          |          |          |
MAAQGEPQVQ FKLVLVGDGG TGKTTFVKRH LTGEFEKKYV ATLGVEVHPL VFHTNRGPIK    60
FNVWDTAGQE KFGGLRDGYY IQAQCAIIMF DVTSRVTYKN VPNWHRDLVR VCENIPIVLC   120
GNKVDIKDRK VKAKSIVFHR KKNLQYYDIS AKSNYNFEKP FLWLARKLIG DPNLEFVAMP   180
ALAPPEVVMD PALAAQYEHD LEVAQTTALP DEDDDL
```

Seq ID NO: 354 DNA sequence
Nucleic Acid Accession #: NM_002820
Coding sequence: 304-831

```
1          11         21         31         41         51
|          |          |          |          |          |
CCGGTTCGCA AAGAAGCTGA CTTCAGAGGG GGAAACTTTC TTCTTTTAGG AGGCGGTTAG    60
CCCTGTTCCA CGAACCCAGG AGAACTGCTG GCCAGATTAA TTAGACATTG CTATGGGAGA   120
CGTGTAAACA CACTACTTAT CATTGATGCA TATATAAAAC CATTTTATTT TCGCTATTAT   180
TTCAGAGGAA GCGCCTCTGA TTTGTTTCTT TTTTCCCTTT TTGCTCTTTC TGGCTGTGTG   240
GTTTGGAGAA AGCACAGTTG GAGTAGCCGG TTGCTAAATA AGTCCCGAGC GCGAGCGGAG   300
ACGATGCAGC GGAGACTGGT TCAGCAGTGG AGCGTCGCGG TGTTCCTGCT GAGCTACGCG   360
GTGCCCTCCT GCGGGCGCTC GGTGGAGGGT CTCAGCCGCC GCCTCAAAAG AGCTGTGTCT   420
GAACATCAGC TCCTCCATGA CAAGGGGAAG TCCATCCAAG ATTTACGGCG ACGATTCTTC   480
CTTCACCATC TGATCGCAGA AATCCACACA GCTGAAATCA GAGCTACCTC GGAGGTGTCC   540
CCTAACTCCA AGCCCTCTCC CAACACAAAG AACCACCCCG TCCGATTTGG GTCTGATGAT   600
GAGGGCAGAT ACCTAACTCA GGAAACTAAC AAGGTGGAGA CGTACAAAGA GCAGCCGCTC   660
AAGACACCTG GGAAGAAAAA GAAAGGCAAG CCCGGGAAAC GCAAGGAGCA GGAAAAGAAA   720
AAACGGCGAA CTCGCTCTGC CTGGTTAGAC TCTGGAGTGA CTGGGAGTGG GCTAGAAGGG   780
GACCACCTGT CTGACACCTC CACAACGTCG CTGGAGCTCG ATTCACGGTA ACAGGCTTCT   840
CTGGCCCGTA GCCTCAGCGG GGTGCTCTCA GCTGGGTTTT GGAGCCTCCC TTCTGCCTTG   900
GCTTGGACAA ACCTAGAATT TTCTCCCTTT ATGTATCTCT ATCGATTGTG TAGCAATTGA   960
CAGAGAATAA CTCAGAATAT TGTCTGCCTT AAAGCAGTAC CCCCCTACCA CACACACCCC  1020
TGTCCTCCAG CACCATAGAG AGGCGCTAGA GCCCATTCCT CTTTCTCCAC CGTCACCCAA  1080
CATCAATCCT TTACCACTCT ACCAAATAAT TTCATATTCA AGCTTCAGAA GCTAGTGACC  1140
ATCTTCATAA TTTGCTGGAG AAGTGTATTT CTTCCCCTTA CTCTCACACC TGGGCAAACT  1200
TTCTTCAGTG TTTTTCATTT CTTACGTTCT TTCACTTCAA GGGAGAATAT AGAAGCATTT  1260
GATATTATCT ACAAACACTG CAGAACAGCA TCATGTCATA AACGATTCTG AGCCATTCAC  1320
ACTTTTTATT TAATTAAATG TATTTAATTA AATCTCAAAT TTATTTTAAT GTAAAGAACT  1380
TAAATTATGT TTTAAACACA TGCCTTAAAT TTGTTTAATT AAATTTAACT CTGGTTTCTA  1440
CCAGCTCATA CAAAATAAAT GGTTTCTGAA AATGTTTAAG TATTAACTTA CAAGGATATA  1500
GGTTTTTCTC ATGTATCTTT TTGTTCATTG GCAAGATGAA ATAATTTTTC TAGGGTAATG  1560
CCGTAGGAAA AATAAAACTT CACATTTAAA AAAAA
```

Seq ID NO: 355 Protein sequence
Protein Accession #: NM_002820

```
1          11         21         31         41         51
|          |          |          |          |          |
MQRRLVQQWS VAVFLLSYAV PSCGRSVEGL SRRLKRAVSE HQLLHDKGKS IQDLRRRFFL    60
HHLIAEIHTA EIRATSEVSP NSKPSPNTKN HPVRFGSDDE GRYLTQETNK VETYKEQPLK   120
```

TPGKKKKGKP GKRKEQEKKK RRTRSAWLDS GVTGSGLEGD HLSDTSTTSL ELDSR

Seq ID NO: 356 DNA sequence
Nucleic Acid Accession #: NM_017522
Coding sequence: 1-2100

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1          11         21         31         41         51
|          |          |          |          |          |
ATGGGCCTCC CCGAGCCGGG CCCTCTCCGG CTTCTGGCGC TGCTGCTGCT GCTGCTGCTG    60
CTGCTGCTGC TGCGGCTCCA GCATCTTGCG GCGGCAGCGG CTGATCCGCT GCTCGGCGGC   120
CAAGGGCCGG CCAAGGAGTG CGAAAAGGAC CAATTCCAGT GCCGGAACGA GCGCTGCATC   180
CCCTCTGTGT GGAGATGCGA CGAGGACGAT GACTGCTTAG ACCACAGCGA CGAGGACGAC   240
TGCCCCAAGA AGACCTGTGC AGACAGTGAC TTCACCTGTG ACAACGGCCA CTGCATCCAC   300
GAACGGTGGA AGTGTGACGG CGAGGAGGAG TGTCCTGATG GCTCCGATGA GTCCGAGGCC   360
ACTTGCACCA AGCAGGTGTG TCCTGCAGAG AAGCTGAGCT GTGGACCCAC CAGCCACAAG   420
TGTGTACCTG CCTCGTGGCG CTGCGACGGG GAGAAGGACT GCGAGGGTGG AGCGGATGAG   480
GCCGGCTGTG CTACCTCACT GGGCACCTGC CGTGGGGACG AGTTCCAGTG TGGGGATGGG   540
ACATGTGTCC TTGCAATCAA GCACTGCAAC CAGGAGCAGG ACTGTCCAGA TGGGAGTGAT   600
GAAGCTGGCT GCCTACAGGG GCTGAACGAG TGTCTGCACA ACAATGGCGG CTGCTCACAC   660
ATCTGCACTG ACCTCAAGAT TGGCTTTGAA TGCACGTGCC CAGCAGGCTT CCAGCTCCTG   720
GACCAGAAGA CTTGTGGCGA CATTGATGAG TGCAAGGACC CAGATGCCTG CAGCCAGATC   780
TGTGTCAATT ACAAGGGCTA TTTTAAGTGT GAGTGCTACC CTGGCTGCGA GATGGACCTA   840
CTGACCAAGA ACTGCAAGGC TGCTGCTGGC AAGAGCCCAT CCCTAATCTT CACCAACCGC   900
ACGAGTGCGG AGGATCGACC TGTGAAGCGG AACTATTCAC GCCTCATCCC CATGCTCAAG   960
AATGTCGTGG CACTAGATGT GGAAGTTGCC ACCAATCGCA TCTACTGGTG TGACCTCTCC  1020
TACCGTAAGA TCTATAGCGC CTACATGGAC AAGGCCAGTG ACCCGAAAGA GCGGGAGGTC  1080
CTCATTGACG AGCAGTTGCA CTCTCCAGAG GGCCTGGCAG TGGACTGGGT CCACAAGCAC  1140
ATCTACTGGA CTGACTCGGG CAATAAGACC ATCTCAGTGG CCACAGTTGA TGGTGGCCGC  1200
CGACGCACTC TCTTCAGCCG TAACCTCAGT GAACCCCGGG CCATCGCTGT TGACCCCCTG  1260
CGAGGGTTCA TGTATTGGTC TGACTGGGGG GACCAGGCCA AGATTGAGAA ATCTGGGCTC  1320
AACGGTGTGG ACCGGCAAAC ACTGGTGTCA GACAATATTG AATGGCCCAA CGGAATCACC  1380
CTGGATCTGC TGAGCCAGCG CTTGTACTGG GTAGACTCCA AGCTACACCA ACTGTCCAGC  1440
ATTGACTTCA GTGGAGGCAA CAGAAAGACG CTGATCTCCT CCACTGACTT CCTGAGCCAC  1500
CCTTTTGGGA TAGCTGTGTT TGAGGACAAG GTGTTCTGGA CAGACCTGGA GAACGAGGCC  1560
ATTTTCAGTG CAAATCGGCT CAATGGCCTG GAAATCTCCA TCCTGGCTGA GAACCTCAAC  1620
AACCCACATG ACATTGTCAT CTTCCATGAG CTGAAGCAGC CAAGAGCTCC AGATGCCTGT  1680
GAGCTGAGTG TCCAGCCTAA TGGAGGCTGT GAATACCTGT GCCTTCCTGC TCCTCAGATC  1740
TCCAGCCACT CTCCCAAGTA CACATGTGCC TGTCCTGACA CAATGTGGCT GGGTCCAGAC  1800
ATGAAGAGGT GCTACCGAGA TGCAAATGAA GACAGTAAGA TGGGCTCAAC AGTCACTGCC  1860
GCTGTTATCG GGATCATCGT GCCCATAGTG GTGATAGCCC TCCTGTGCAT GAGTGGATAC  1920
CTGATCTGGA GAAACTGGAA GCGGAAGAAC ACCAAAAGCA TGAATTTTGA CAACCCAGTC  1980
TACAGGAAAA CAACAGAAGA AGAAGATGAA GATGAGCTCC ATATAGGGAG AACTGCTCAG  2040
ATTGGCCATG TCTATCCTGC ACGAGTGGCA TTAAGCCTTG AAGATGATGG ACTACCCTGA  2100
GGATGGGATC ACCCCCTTCG TGCCTCATGG AATTCAGTCC CATGCACTAC ACTCCGGATG  2160
GTGTATGACT GGATGAATGG GTTTCTATAT ATGGGTCTGT GTGAGTGTAT GTGTGTGTGT  2220
GATTTTTTTT TTTAAATTTA TGTTGCGGAA AGGTAACCAC AAAGTTATGA TGAACTGCAA  2280
ACATCCAAAG GATGTGAGAG TTTTTCTATG TATAATGTTT TATACACTTT TTAACTGGTT  2340
GCACTACCCA TGAGGAATTC GTGGAATGGC TACTGCTGAC TAACATGATG CACATAACCA  2400
AATGGGGGCC AATGGCACAG TACCTTACTC ATCATTTAAA AACTATATTT ACAGAAGATG  2460
TTTGGTTGCT GGGGGGCTTT TTTAGGTTTT GGGCATTTGT TTTTTGTAAA TAAGATGATT  2520
ATGCTTTGTG GCTATCCATC AACATAAGT
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Seq ID NO: 357 Protein sequence
Protein Accession #: NP_059992

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1          11         21         31         41         51
|          |          |          |          |          |
MGLPEPGPLR LLALLLLLLL LLLLRLQHLA AAAADPLLGG QGPAKECEKD QFQCRNERCI    60
PSVWRCDEDD DCLDHSDEDD CPKKTCADSD FTCDNGHCIH ERWKCDGEEE CPDGSDESEA   120
TCTKQVCPAE KLSCGPTSHK CVPASWRCDG EKDCEGGADE AGCATSLGTC RGDEFQCGDG   180
TCVLAIKHCN QEQDCPDGSD EAGCLQGLNE CLHNNGGCSH ICTDLKIGFE CTCPAGFQLL   240
DQKTCGDIDE CKDPDACSQI CVNYKGYFKC ECYPGCEMDL LTKNCKAAAG KSPSLIFTNR   300
TSAEDRPVKR NYSRLIPMLK NVVALDVEVA TNRIYWCDLS YRKIYSAYMD KASDPKEREV   360
LIDEQLHSPE GLAVDWVHKH IYWTDSGNKT ISVATVDGGR RRTLFSRNLS EPRAIAVDPL●  420
RGFMYWSDWG DQAKIEKSGL NGVDRQTLVS DNIEWPNGIT LDLLSQRLYW VDSKLHQLSS   480
IDFSGGNRKT LISSTDFLSH PFGIAVFEDK VFWTDLENEA IFSANRLNGL EISILAENLN   540
NPHDIVIFHE LKQPRAPDAC ELSVQPNGGC EYLCLPAPQI SSHSPKYTCA CPDTMWLGPD   600
MKRCYRDANE DSKMGSTVTA AVIGIIVPIV VIALLCMSGY LIWRNWKRKN TKSMNFDNPV   660
YRKTTEEEDE DELHIGRTAQ IGHVYPARVA LSLEDDGLP
```

Seq ID NO: 358 DNA sequence
Nucleic Acid Accession #: M27826
Coding sequence: <1-503

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1          11         21         31         41         51
|          |          |          |          |          |
AGCCCAAGAA ACATCTCACC AATTTCAAAT CTGATCTATT CGGCTTAGCG ACTGAAGATT    60
GACGCTGCCC GATCGCCTCG GAAGTCCCCT GGACCATCAC AGAAGCCGAG CTTCGGGTAA   120
CTCTCACAGT GGAGGGTAAG TCCATCCCCT GTTTAATCGA TACGGGGGCT ACCCACTCCA   180
CGTTGCCTTC TTTTCAAGGG CCTGTTTCCC TTGCCCCCAT AACTGTTGTG GGTATTGACG   240
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TTCTTCCCAA TCCAAAGCCT CCTTTGTGTC CTCTAACATC CCCACAATAT CAGCCCTTAC   480
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CACTTGAAGC AGCCCTGAGA AACATCGCCC ATTCTCTCTC CATACCACCC CCCAAAAATT   600
TTCGCCGCTC CAACACTTCA ACACTATTTT GTTTTATTTG TCTTATTAAT ATCAGAAGGC   660
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CCCAAATCCT ATAAAACAGC CCCACCCCTA TCTTCCTTCA CTGACTCTCT TTTCGGACTC  1020
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Seq ID NO: 359 Protein sequence
Protein Accession #: AAA65999

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LPSFQGPVSL APITVVGIDG QASKPLKTPP LWCQLGQHSF MHSFLVIPTC PLPLLGRNIL   120
TKLSASLTIP GVQLHLIAAL LPNPKPPLCP LTSPQYQPLP QDLPSA
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Seq ID NO: 360 DNA sequence
Nucleic Acid Accession #: NM_001854
Coding sequence: 162-5582

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Seq ID NO: 361 Protein sequence
Protein Accession #: NP_001845

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DCKKKTTKPL DRSERAIVDT NGITVFGTRI LDEEVFEGDI QQFLITGDPK AAYDYCEHYS  240
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Seq ID NO: 362 DNA sequence
Nucleic Acid Accession #: NM_003107
Coding sequence: 351-1775

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Seq ID NO: 363 Protein sequence
Protein Accession #: NP_003098

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GGGASGGGAN SKPAQKKSCG SKVAGGAGGG VSKPHAKLIL AGGGGGGKAA AAAAASFAAE   240
QAGAAALLPL GAAADHHSLY KARTPSASAS ASSAASASAA LAAPGKHLAE KKVKRVYLFG   300
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YASLRAASPA PSSAPSHASS SASSHSSSSS SSGSSSSDDE FEDDLLDLNP SSNFESMSLG   420
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Seq ID NO: 364 DNA sequence
Nucleic Acid Accession #: U10860
Coding sequence: 123-2204

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GCCAGTCTGT TGAAGAGGCC CTCAAAAAGC TTGGAATTCA GGTCAAAGTG ATAAATGCTG  1020
CTCATTCTTT CTACAATGGA ACAACAACCC TACCAATATC AGATGAAGAT AGAACCCCAC  1080
GGAAAAGAAT TAGCAAAACG TTAAATATGA CCACAAGTCC TGAAGAGAAA AGAAAAATCA  1140
TTGGGGATAC TTTTGTTAAG ATTGCCAATG AAGTAATTGG AGAAATGAAC TTGAAACCAG  1200
AGGAGGTTTT CCTTGCCCAA GGTACTTTAC GGCCTGATCT AATTGAAAGT GCATCCCTTG  1260
```

```
TTGCAAGTGG CAAAGCTGAA CTCATCAAAA CCCATCACAA TGACACAGAG CTCATCAGAA  1320
AGTTGAGAGA GGAGGGAAAA GTAATAGAAC CTCTGAAAGA TTTTCATAAA GATGAAGTGA  1380
GAATTTTGGG CAGAGAACTT GGACTTCCAG AAGAGTTAGT TTCCAGGCAT CCATTTCCAG  1440
GTCCTGGCCT GGCAATCAGA GTAATATGTG CTGAAGAACC TTATATTTGT AAGGACTTTC  1500
CTGAAACCAA CAATATTTTG AAAATAGTAG CTGATTTTTC TGCAAGTGTT AAAAAGCCAC  1560
ATACCCTATT ACAGAGAGTC AAAGCCTGCA CAACAGAAGA GGATCAGGAG AAGCTGATGC  1620
AAATTACCAG TCTGCATTCA CTGAATGCCT TCTTGCTGCC AATTAAAACT GTAGGTGTGC  1680
AGGGTGACTG TCGTTCCTAC AGTTACGTGT GTGGAATCTC CAGTAAAGAT GAACCTGACT  1740
GGGAATCACT TATTTTTCTG GCTAGGCTTA TACCTCGCAT GTGTCACAAC GTTAACAGAG  1800
TTGTTTATAT ATTTGGCCCA CCAGTTAAAG AACCTCCTAC AGATGTTACT CCCACTTTCT  1860
TGACAACAGG GGTGCTCAGT ACTTTACGCC AAGCTGATTT TGAGGCCCAT AACATTCTCA  1920
GGGAGTCTGG GTATGCTGGG AAAATCAGCC AGATGCCGGT GATTTTGACA CCATTACATT  1980
TTGATCGGGA CCCACTTCAA AAGCAGCCTT CATGCCAGAG ATCTGTGGTT ATTCGAACCT  2040
TTATTACTAG TGACTTCATG ACTGGTATAC CTGCAACACC TGGCAATGAG ATCCCTGTAG  2100
AGGTGGTATT AAAGATGGTC ACTGAGATTA AGAAGATTCC TGGTATTTCT CGAATTATGT  2160
ATGACTTAAC ATCAAAGCCC CCAGGAACTA CTGAGTGGGA GTAATAAACT TC
```

Seq ID NO: 365 Protein sequence
Protein Accession #: AAA60331

```
1           11          21          31          41          51
|           |           |           |           |           |
MALCNGDSKL ENAGGDLKDG HHHYEGAVVI LDAGAQYGKV IDRRVRELFV QSEIFPLETP    60
AFAIKEQGFR AIIISGGPNS VYAEDAPWFD PAIFTIGKPV LGICYGMQMM NKVFGGTVHK   120
KSVREDGVFN ISVDNTCSLF RGLQKEEVVL LTHGDSVDKV ADGFKVVARS GNIVAGIANE   180
SKKLYGAQFH PEVGLTENGK VILKNFLYDI AGCSGTFTVQ NRELECIREI KERVGTSKVL   240
VLLSGGVDST VCTALLNRAL NQEQVIAVHI DNGFMRKRES QSVEEALKKL GIQVKVINAA   300
HSFYNGTTTL PISDEDRTPR KRISKTLNMT TSPEEKRKII GDTFVKIANE VIGEMNLKPE   360
EVFLAQGTLR PDLIESASLV ASGKAELIKT HHNDTELIRK LREEGKVIEP LKDFHKDEVR   420
ILGRELGLPE ELVSRHPFPG PGLAIRVICA EEPYICKDFP ETNNILKIVA DFSASVKKPH   480
TLLQRVKACT TEEDQEKLMQ ITSLHSLNAF LLPIKTVGVQ GDCRSYSYVC GISSKDEPDW   540
ESLIFLARLI PRMCHNVNRV VYIFGPPVKE PPTDVTPTFL TTGVLSTLRQ ADFEAHNILR   600
ESGYAGKISQ MPVILTPLHF DRDPLQKQPS CQRSVVIRTF ITSDFMTGIP ATPGNEIPVE   660
VVLKMVTEIK KIPGISRIMY DLTSKPPGTT EWE
```

Seq ID NO: 366 DNA sequence
Nucleic Acid Accession #: NM_004219
Coding sequence: 46-654

```
1           11          21          31          41          51
|           |           |           |           |           |
GCGGCCTCAG ATGAATGCGG CTGTTAAGAC CTGCAATAAT CCAGAATGGC TACTCTGATC    60
TATGTTGATA AGGAAAATGG AGAACCAGGC ACCCGTGTGG TTGCTAAGGA TGGGCTGAAG   120
CTGGGGTCTG GACCTTCAAT CAAAGCCTTA GATGGGAGAT CTCAAGTTTC AACACCACGT   180
TTTGGCAAAA CGTTCGATGC CCCACCAGCC TTACCTAAAG CTACTAGAAA GGCTTTGGGA   240
ACTGTCAACA GAGCTACAGA AAAGTCTGTA AAGACCAAGG GACCCCTCAA ACAAAAACAG   300
CCAAGCTTTT CTGCCAAAAA GATGACTGAG AAGACTGTTA AAGCAAAAAG CTCTGTTCCT   360
GCCTCAGATG ATGCCTATCC AGAAATAGAA AAATTCTTTC CCTTCAATCC TCTAGACTTT   420
GAGAGTTTTG ACCTGCCTGA AGAGCACCAG ATTGCGCACC TCCCCTTGAG TGGAGTGCCT   480
CTCATGATCC TTGACGAGGA GAGAGAGCTT GAAAAGCTGT TTCAGCTGGG CCCCCCTTCA   540
CCTGTGAAGA TGCCCTCTCC ACCATGGGAA TCCAATCTGT TGCAGTCTCC TTCAAGCATT   600
CTGTCGACCC TGGATGTTGA ATTGCCACCT GTTTGCTGTG ACATAGATAT TTAAATTTCT   660
TAGTGCTTCA GAGTTTGTGT GTATTTGTAT TAATAAAGCA TTCTTCAACA GAAAAAAAAA   720
AAAAAAAA
```

Seq ID NO: 367 Protein sequence
Protein Accession #: NP_004210

```
1           11          21          31          41          51
|           |           |           |           |           |
MATLIYVDKE NGEPGTRVVA KDGLKLGSGP SIKALDGRSQ VSTPRFGKTF DAPPALPKAT    60
RKALGTVNRA TEKSVKTKGP LKQKQPSFSA KKMTEKTVKA KSSVPASDDA YPEIEKFPFF   120
NPLDFESFDL PEEHQIAHLP LSGVPLMILD EERELEKLFQ LGPPSPVKMP SPPWESNLLQ   180
SPSSILSTLD VELPPVCCDI DI
```

Seq ID NO: 368 DNA sequence
Nucleic Acid Accession #: NM_000597
Coding sequence: 118-1104

```
1           11          21          31          41          51
|           |           |           |           |           |
ATTCGGGGCG AGGGAGGAGG AAGAAGCGGA GGAGGCGGCT CCCGCTCGCA GGGCCGTGCA    60
CCTGCCCGCC CGCCCGCTCG CTCGCTCGCC CGCCGCGCCG CGCTGCCGAC CGCCAGCATG   120
CTGCCGAGAG TGGGCTGCCC CGCGCTGCCG CTGCCGCCGC CGCCGCTGCT GCCGCTGCTG   180
CCGCTGCTGC TGCTGCTACT GGGCGCGAGT GGCGGCGGCG GCGGGGCGCG CGCGGAGGTG   240
CTGTTCCGCT GCCCGCCCTG CACACCCGAG CGCCTGGCCG CCTGCGGGCC CCCGCCGGTT   300
GCGCCGCCCG CCGCGGTGGC CGCAGTGGCC GGAGGCGCCC GCATGCCATG CGCGGAGCTC   360
GTCCGGGAGC CGGGCTGCGG CTGCTGCTCG GTGTGCGCCC GGCTGGAGGG CGAGGCGTGC   420
GGCGTCTACA CCCCGCGCTG CGGCCAGGGG CTGCGCTGCT ATCCCCACCC GGGCTCCGAG   480
CTGCCCCTGC AGGCGCTGGT CATGGGCGAG GGCACTTGTG AGAAGCGCCG GGACGCCGAG   540
TATGGCGCCA GCCCGGAGCA GGTTGCAGAC AATGGCGATG ACCACTCAGA AGGAGGCCTG   600
GTGGAGAACC ACGTGGACAG CACCATGAAC ATGTTGGGCG GGGGAGGCAG TGCTGGCCGG   660
AAGCCCCTCA AGTCGGGTAT GAAGGAGCTG GCCGTGTTCC GGGAGAAGGT CACTGAGCAG   720
CACCGGCAGA TGGGCAAGGG TGGCAAGCAT CACCTTGGCC TGGAGGAGCC CAAGAAGCTG   780
CGACCACCCC CTGCCAGGAC TCCCTGCCAA CAGGAACTGG ACCAGGTCCT GGAGCGGATC   840
```

```
TCCACCATGC GCCTTCCGGA TGAGCGGGGC CCTCTGGAGC ACCTCTACTC CCTGCACATC   900
CCCAACTGTG ACAAGCATGG CCTGTACAAC CTCAAACAGT GCAAGATGTC TCTGAACGGG   960
CAGCGTGGGG AGTGCTGGTG TGTGAACCCC AACACCGGGA AGCTGATCCA GGGAGCCCCC  1020
ACCATCCGGG GGGACCCCGA GTGTCATCTC TTCTACAATG AGCAGCAGGA GGCTTGCGGG  1080
GTGCACACCC AGCGGATGCA GTAGACCGCA GCCAGCCGGT GCCTGGCGCC CCTGCCCCCC  1140
GCCCCTCTCC AAACACCGGC AGAAAACGGA GAGTGCTTGG GTGGTGGGTG CTGGAGGATT  1200
TTCCAGTTCT GACACACGTA TTTATATTTG GAAAGAGACC AGCACCGAGC TCGGCACCTC  1260
CCCGGCCTCT CTCTTCCCAG CTGCAGATGC CACACCTGCT CCTTCTTGCT TTCCCCGGGG  1320
GAGGAAGGGG GTTGTGGTCG GGGAGCTGGG GTACAGGTTT GGGGAGGGGG AAGAGAAATT  1380
TTTATTTTTG AACCCCTGTG TCCCTTTTGC ATAAGATTAA AGGAAGGAAA AGT
```

Seq ID NO: 369 Protein sequence
Protein Accession #: NP_000588

```
1           11          21          31          41          51
|           |           |           |           |           |
MLPRVGCPAL PLPPPPLLPL LPLLLLLLGA SGGGGGARAE VLFRCPPCTP ERLAACGPPP    60
VAPPAAVAAV AGGARMPCAE LVREPGCGCC SVCARLEGEA CGVYTPRCGQ GLRCYPHPGS   120
ELPLQALVMG EGTCEKRRDA EYGASPEQVA DNGDDHSEGG LVENHVDSTM NMLGGGGSAG   180
RKPLKSGMKE LAVFREKVTE QHRQMGKGGK HHLGLEEPKK LRPPPARTPC QQELDQVLER   240
ISTMRLPDER GPLEHLYSLH IPNCDKHGLY NLKQCKMSLN GQRGECWCVN PNTGKLIQGA   300
PTIRGDPECH LFYNEQQEAC GVHTQRMQ
```

Seq ID NO: 370 DNA sequence
Nucleic Acid Accession #: NM_004264
Coding sequence: 6-440

```
1           11          21          31          41          51
|           |           |           |           |           |
GGAACATGGC GGATCGGCTC ACGCAGCTTC AGGACGCTGT GAATTCGCTT GCAGATCAGT    60
TTTGTAATGC CATTGGAGTA TTGCAGCAAT GTGGTCCTCC TGCCTCTTTC AATAATATTC   120
AGACAGCAAT TAACAAAGAC CAGCCAGCTA ACCCTACAGA AGAGTATGCC CAGCTTTTTG   180
CAGCACTGAT TGCACGAACA GCAAAAGACA TTGATGTTTT GATAGATTCC TTACCCAGTG   240
AAGAATCTAC AGCTGCTTTA CAGGCTGCTA GCTTGTATAA GCTAGAAGAA GAAAACCATG   300
AAGCTGCTAC ATGTGTGGAG GATGTTGTTT ATCGAGGAGA CATGCTTCTG GAGAAGATAC   360
AAAGCGCACT TGCTGATATT GCACAGTCAC AGCTGAAGAC AAGAAGTGGT ACCCATAGCC   420
AGTCTCTTCC AGACTCATAG CATCAGTGGA TACCATGTGG CTGAGAAAAG AACTGTTTGA   480
GTGCCATTAA GAATTCTGCA TCAGACTTAG ATACAAGCCT TACCAACAAT TACAGAAACA   540
TTAAACACTA TGACACATTA CCTTTTTAGC TATTTTTAAT AGTCTTCTAT TTTCACTCTT   600
GATAAGCTTA TAAATCATGA TTGAATCAGC TTTAAAGCAT CATACCATCA TTTTTTAACT   660
GAGTGAAATT ATTAAGGCAT GTAATACATT AATGAACATA ATATAAGGAA ACATATGTAA   720
AATTCTGTTA TGACATAATT TATGTCTCCA TTTTGTTGTA TTGGCCAGTA CTTTTACAAT   780
C
```

Seq ID NO: 371 Protein sequence
Protein Accession #: NP_004255

```
1           11          21          31          41          51
|           |           |           |           |           |
MADRLTQLQD AVNSLADQFC NAIGVLQQCG PPASFNNIQT AINKDQPANP TEEYAQLFAA    60
LIARTAKDID VLIDSLPSEE STAALQAASL YKLEEENHEA ATCVEDVVYR GDMLLEKIQS   120
ALADIAQSQL KTRSGTHSQS LPDS
```

Seq ID NO: 372 DNA sequence
Nucleic Acid Accession #: AJ271091
Coding sequence: 1-1113

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGGAGAATC AGGTGTTGAC GCCGCATGTC TACTGGGCTC AGCGACACCG CGAGCTATAT    60
CTGCGCGTGG AGCTGAGTGA CGTACAGAAC CCTGCCATCA GCATCACTGA AAACGTGCTG   120
CATTTCAAAG CTCAAGGACA TGGTGCCAAA GGAGACAATG TCTATGAATT TCACCTGGAG   180
TTCTTAGACC TTGTGAAACC AGAGCCTGTT TACAAACTGA CCCAGAGGCA GGTAAACATT   240
ACAGTACAGA AGAAAGTGAG TCAGTGGTGG GAGAGACTCA CAAAGCAGGA AAAGCGACCA   300
CTGTTTTTGG CTCCTGACTT TGATCGTTGG CTGGATGAAT CTGATGCGGA AATGGAGCTC   360
AGAGCTAAGG AAGAAGAGCG CCTAAATAAA CTCCGACTGG AAAGCGAAGG CTCTCCTGAA   420
ACTCTTACAA ACTTAAGGAA AGGATACCTG TTTATGTATA ATCTTGTGCA ATTCTTGGGA   480
TTCTCCTGGA TCTTTGTCAA CCTGACTGTG CGATTCTGTA TCTTGGGAAA AGAGTCCTTT   540
TATGACACAT TCCATACTGT GGCTGACATG ATGTATTTCT GCCAGATGCT GGCAGTTGTG   600
GAAACTATCA ATGCAGCAAT TGGAGTCACT ACGTCACCGG TGCTGCCTTC TCTGATCCAG   660
CTTCTTGGAA GAAATTTTAT TTTGTTTATC ATCTTTGGCA CCATGGAAGA AATGCAGAAC   720
AAAGCTGTGG TTTTCTTTGT GTTTTATTTG TGGAGTGCAA TTGAAATTTT CAGGTACTCT   780
TTCTACATGC TGACGTGCAT TGACATGGAT TGGAAGGTGC TCACATGGCT TCGTTACACT   840
CTGTGGATTC CCTTATATCC ACTGGGATGT TTGGCGGAAG CTGTCTCAGT GATTCAGTCC   900
ATTCCAATAT TCAATGAGAC CGGACGATTC AGTTTCACAT TGCCATATCC AGTGAAAATC   960
AAAGTTAGAT TTTCCTTTTT TCTTCAGATT TATCTTATAA TGATATTTTT AGGTTTATAC  1020
ATAAATTTTC GTCACCTTTA TAAACAGCGC AGACTGAAAA TGAGGGCAGG CGCAGTGGCT  1080
CATGCCTGTG ATCCCAGCGC TTTGGGAGGC TGA
```

Seq ID NO: 373 Protein sequence
Protein Accession #: CAB69070

```
1           11          21          31          41          51
|           |           |           |           |           |
MENQVLTPHV YWAQRHRELY LRVELSDVQN PAISITENVL HFKAQGHGAK GDNVYEFHLE    60
FLDLVKPEPV YKLTQRQVNI TVQKKVSQWW ERLTKQEKRP LFLAPDFDRW LDESDAEMEL   120
RAKEEERLNK LRLESEGSPE TLTNLRKGYL FMYNLVQFLG FSWIFVNLTV RFCILGKESF   180
```

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YDTFHTVADM MYFCQMLAVV ETINAAIGVT TSPVLPSLIQ LLGRNFILFI IFGTMEEMQN   240
KAVVFFVFYL WSAIEIFRYS FYMLTCIDMD WKVLTWLRYT LWIPLYPLGC LAEAVSVIQS   300
IPIFNETGRF SFTLPYPVKI KVRFSFFLQI YLIMIFLGLY INFRHLYKQR RLKMRAGAVA   360
HACDPSALGG
```

Seq ID NO: 374 DNA sequence
Nucleic Acid Accession #: NM_016395
Coding sequence: 1-1113

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGGAGAATC AGGTGTTGAC GCCGCATGTC TACTGGGCTC AGCGACACCG CGAGCTATAT    60
CTGCGCGTGG AGCTGAGTGA CGTACAGAAC CCTGCCATCA GCATCACTGA AAACGTGCTG   120
CATTTCAAAG CTCAAGGACA TGGTGCCAAA GGAGACAATG TCTATGAATT TCACCTGGAG   180
TTCTTAGACC TTGTGAAACC AGAGCCTGTT TACAAACTGA CCCAGAGGCA GGTAAACATT   240
ACAGTACAGA AGAAAGTGAG TCAGTGGTGG GAGAGACTCA CAAAGCAGGA AAAGCGACCA   300
CTGTTTTTGG CTCCTGACTT TGATCGTTGG CTGGATGAAT CTGATGCGGA AATGGAGCTC   360
AGAGCTAAGG AAGAAGAGCG CCTAAATAAA CTCCGACTGG AAAGCGAAGG CTCTCCTGAA   420
ACTCTTACAA ACTTAAGGAA AGGATACCTG TTTATGTATA ATCTTGTGCA ATTCTTGGGA   480
TTCTCCTGGA TCTTTGTCAA CCTGACTGTG CGATTCTGTA TCTTGGGAAA AGAGTCCTTT   540
TATGACACAT TCCATACTGT GGCTGACATG ATGTATTTCT GCCAGATGCT GGCAGTTGTG   600
GAAACTATCA ATGCAGCAAT TGGAGTCACT ACGTCACCGG TGCTGCCTTC TCTGATCCAG   660
CTTCTTGGAA GAAATTTTAT TTTGTTTATC ATCTTTGGCA CCATGGAAGA AATGCAGAAC   720
AAAGCTGTGG TTTTCTTTGT GTTTTATTTG TGGAGTGCAA TTGAAATTTT CAGGTACTCT   780
TTCTACATGC TGACGTGCAT TGACATGGAT TGGAAGGTGC TCACATGGCT TCGTTACACT   840
CTGTGGATTC CCTTATATCC ACTGGGATGT TTGGCGGAAG CTGTCTCAGT GATTCAGTCC   900
ATTCCAATAT TCAATGAGAC CGGACGATTC AGTTTCACAT TGCCATATCC AGTGAAAATC   960
AAAGTTAGAT TTTCCTTTTT TCTTCAGATT TATCTTATAA TGATATTTTT AGGTTTATAC  1020
ATAAATTTTC GTCACCTTTA TAAACAGCGC AGACTGAAAA TGAGGGCAGG CGCAGTGGCT  1080
CATGCCTGTG ATCCCAGCGC TTTGGGAGGC TGA
```

Seq ID NO: 375 Protein sequence
Protein Accession #: NP_057479

```
1          11         21         31         41         51
|          |          |          |          |          |
MENQVLTPHV YWAQRHRELY LRVELSDVQN PAISITENVL HFKAQGHGAK GDNVYEFHLE    60
FLDLVKPEPV YKLTQRQVNI TVQKKVSQWW ERLTKQEKRP LFLAPDFDRW LDESDAEMEL   120
RAKEEERLNK LRLESEGSPE TLTNLRKGYL FMYNLVQFLG FSWIFVNLTV RFCILGKESF   180
YDTFHTVADM MYFCQMLAVV ETINAAIGVT TSPVLPSLIQ LLGRNFILFI IFGTMEEMQN   240
KAVVFFVFYL WSAIEIFRYS FYMLTCIDMD WKVLTWLRYT LWIPLYPLGC LVEAVSVIQS   300
IPIFNETGRF SFTLPYPVKI KVRFSFFLQI YLIMIFLGLY INFRHLYKQR RRRYGKKRKR   360
STKKKDLDGF LPV
```

Seq ID NO: 376 DNA sequence
Nucleic Acid Accession #: NM_005987
Coding sequence: 1-270

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGAATTCTC AGCAGCAGAA GCAGCCTTGC ACCCCACCCC CTCAGCCTCA GCAGCAGCAG    60
GTGAAACAAC CTTGCCAGCC TCCACCCCAG GAACCATGCA TCCCCAAAAC CAAGGAGCCC   120
TGCCAACCCA AGGTGCCTGA GCCCTGCCAC CCCAAAGTGC CTGAGCCCTG CCAGCCCAAG   180
ATTCCAGAGC CCTGCCAGCC CAAGGTGCCT GAGCCCTGCC CTTCAACGGT CACTCCAGCA   240
CCAGCCCAGC AGAAGACCAA GCAGAAGTAA
```

Seq ID NO: 377 Protein sequence
Protein Accession #: NP_005978

```
1          11         21         31         41         51
|          |          |          |          |          |
MNSQQQKQPC TPPPQPQQQQ VKQPCQPPPQ EPCIPKTKEP CQPKVPEPCH PKVPEPCQPK    60
IPEPCQPKVP EPCPSTVTPA PAQQKTKQK
```

Seq ID NO: 378 DNA sequence
Nucleic Acid Accession #: NM_002105
Coding sequence: 74-505

```
1          11         21         31         41         51
|          |          |          |          |          |
ACAGCAGTTA CACTGCGGCG GGCGTCTGTT CTAGTGTTTG AGCCGTCGTG CTTCACCGGT    60
CTACCTCGCT AGCATGTCGG GCCGCGGCAA GACTGGCGGC AAGGCCCGCG CCAAGGCCAA   120
GTCGCGCTCG TCGCGCGCCG GCCTCCAGTT CCCAGTGGGC CGTGTACACC GGCTGCTGCG   180
GAAGGGCCAC TACGCCGAGC GCGTTGGCGC CGGCGCGCCA GTGTACCTGG CGGCAGTGCT   240
GGAGTACCTC ACCGCTGAGA TCCTGGAGCT GGCGGGCAAT GCGGCCCGCG ACAACAAGAA   300
GACGCGAATC ATCCCCCGCC ACCTGCAGCT GGCCATCCGC AACGACGAGG AGCTCAACAA   360
GCTGCTGGGC GGCGTGACGA TCGCCCAGGG AGGCGTCCTG CCCAACATCC AGGCCGTGCT   420
GCTGCCCAAG AAGACCAGCG CCACCGTGGG GCCGAAGGCG CCCTCGGGCG GCAAGAAGGC   480
CACCCAGGCC TCCCAGGAGT ACTAAGAGGG CCCGCGCCGC GGCCGGCCGC CCCAGCTCCC   540
CATGCCACCA CAAAGGCCCT TTTAAGGGCC ACCACCGCCC TCATGGAAAG AGCTGAGCCG   600
CTTCAGACTG CGGGGCAAGC GGGCCGCGGC TCCCTTCCCC TCCCCTCCCC TCGCCCGCCT   660
TCGCCGCCCG GCCTCGAGTC CCCGCCCGCC CCCGCTCCCG TCCCGCACCG CCTGCCGCGT   720
CGGCCTCGGG CCTGCCCTGT CCGCCGTCCG CCCTCCGGTA GGGTTCGGGC CTTCCGGATG   780
CGGCTTGGGC GCTCTTCGGG GACCTCCGTG GCGCGGAAGA CCCGAGCCTG CCGGGGGGAG   840
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GCCGGCGGCG CCGCACCTGC CCGCCTCGGC GTTCGTGACT CAGCCGCCCC ATCCCGAGTC   900
GCTAAGGGGC TGCGGGGAGG CCGCAGCACC TTCTGGAAGA CTTGGCCTTC CGCTCTGACG   960
CAGGGCCGAG GTGGGCAGTC CAGGCCGAGA GCCGGCGGCC CTGAAGGTGA GTGAGGCCCT  1020
CGGCAGCTGC AGCCGGGGTG TCTGGTACCC CCCCGGCGTG GTGCTTAGCC CAGGACTTTC  1080
AGACGGCCGC TGGCCGGGAG GCTTTGGTGG GAGAGACGCG ATCGCCGATT TCGGTCTGGC  1140
GCCCCTTCTG CGGCCGGGAC CCAGGCCTTT CACATCAGCT CTCCCTCCAT CTTCATTCAT  1200
AGGTCTGCGC TGGGGCCGGG ACGAAGCACT TGGTAACAGG CACATCTTCC TCCCGAGTGA  1260
CTGCCTCCTA GGAGGACATT TAGGGGAGGG CAGAGGCCTG CAGTTTGGCT TCACGGCTGG  1320
CTATGTGGAC AGCAAGAGTC GTTTTGCGGA ACGCGACTGG CAGCCAGGCC TGTCGGGCCC  1380
CCGACGCCGC CCCATTTCCC TTCCAGCAAA CTCAACTCGG CAATCCAAGC ACCTAGATAC  1440
CAGCACAAGT CGGTTAATCC CTGTCTGGAC TGAGCCTCCG TTGGCTTCTG AACTGGAATT  1500
CTGCAGCTAA CCCTTCCACG ACTAGAACCT TAGGCATTGG GGAGTTTTAG ATGGACTAAT  1560
TTTATTAAAG GATTGTTTTT TTTTT
```

Seq ID NO: 379 Protein sequence
Protein Accession #: NP_002096

```
1          11         21         31         41         51
|          |          |          |          |          |
MSGRGKTGGK ARAKAKSRSS RAGLQFPVGR VHRLLRKGHY AERVGAGAPV YLAAVLEYLT    60
AEILELAGNA ARDNKKTRII PRHLQLAIRN DEELNKLLGG VTIAQGGVLP NIQAVLLPKK   120
TSATVGPKAP SGGKKATQAS QEY
```

Seq ID NO: 380 DNA sequence
Nucleic Acid Accession #: AL136942
Coding sequence: 184-864

```
1          11         21         31         41         51
|          |          |          |          |          |
ACGCGTCCGG CAGAAGCTCG GAGCTCTCGG GGTATCGAGG AGGCAGGCCC GCGGGCGCAC    60
GGGCGAGCGG GCCGGGAGCC GGAGCGGCGG AGGAGCCGGC AGCAGCGGCG CGGCGGGCTC   120
CAGGCGAGGC GGTCGACGCT CCTGAAAACT TGCGCGCGCG CTCGCGCCAC TGCGCCCGGA   180
GCGATGAAGA TGGTCGCGCC CTGGACGCGG TTCTACTCCA ACAGCTGCTG CTTGTGCTGC   240
CATGTCCGCA CCGGCACCAT CCTGCTCGGC GTCTGGTATC TGATCATCAA TGCTGTGGTA   300
CTGTTGATTT TATTGAGTGC CCTGGCTGAT CCGGATCAGT ATAACTTTTC AAGTTCTGAA   360
CTGGGAGGTG ACTTTGAGTT CATGGATGAT GCCAACATGT GCATTGCCAT TGCGATTTCT   420
CTTCTCATGA TCCTGATATG TGCTATGGCT ACTTACGGAG CGTACAAGCA ACGCGCAGCC   480
TGGATCATCC CATTCTTCTG TTACCAGATC TTTGACTTTG CCCTGAACAT GTTGGTTGCA   540
ATCACTGTGC TTATTTATCC AAACTCCATT CAGGAATACA TACGGCAACT GCCTCCTAAT   600
TTTCCCTACA GAGATGATGT CATGTCAGTG AATCCTACCT GTTTGGTCCT TATTATTCTT   660
CTGTTTATTA GCATTATCTT GACTTTTAAG GGTTACTTGA TTAGCTGTGT TTGGAACTGC   720
TACCGATACA TCAATGGTAG GAACTCCTCT GATGTCCTGG TTTATGTTAC CAGCAATGAC   780
ACTACGGTGC TGCTACCCCC GTATGATGAT GCCACTGTGA ATGGTGCTGC CAAGGAGCCA   840
CCGCCACCTT ACGTGTCTGC CTAAGCCTTC AAGTGGGCGG AGCTGAGGGC AGCAGCTTGA   900
CTTTGCAGAC ATCTGAGCAA TAGTTCTGTT ATTTCACTTT TGCCATGAGC CTCTCTGAGC   960
TTGTTTGTTG CTGAAATGCT ACTTTTTAAA ATTTAGATGT TAGATTGAAA ACTGTAGTTT  1020
TCAACATATG CTTTGCTAGA ACACTGTGAT AGATTAACTG TAGAATTCTT CCTGTACGAT  1080
TGGGGATATA ACGGGCTTCA CTAACCTTCC CTAGGCATTG AAACTTCCCC CAAATCTGAT  1140
GGACCTAGAA GTCTGCTTTT GTACCTGCTG GGCCCCAAAG TTGGGCATTT TTCTCTCTGT  1200
TCCCTCTCTT TTGAAAATGT AAAATAAAAC CAAAAATAGA CAACTTTTTC TTCAGCCATT  1260
CCAGCATAGA GAACAAAACC TTATGGAAAC AGGAATGTCA ATTGTGTAAT CATTGTTCTA  1320
ATTAGGTAAA TAGAAGTCCT TATGTATGTG TTACAAGAAT TTCCCCCACA ACATCCTTTA  1380
TGACTGAAGT TCAATGACAG TTTGTGTTTG GTGGTAAAGG ATTTTCTCCA TGGCCTGAAT  1440
TAAGACCATT AGAAAGCACC AGGCCGTGGG AGCAGTGACC ATCTACTGAC TGTTCTTGTG  1500
GATCTTGTGT CCAGGGACAT GGGGTGACAT GCCTCGTATG TGTTAGAGGG TGGAATGGAT  1560
GTGTTTGGCG CTGCATGGGA TCTGGTGCCC CTCTTCTCCT GGATTCACAT CCCCACCCAG  1620
GGCCCGCTTT TACTAAGTGT TCTGCCCTAG ATTGGTTCAA GGAGGTCATC CAACTGACTT  1680
TATCAAGTGG AATTGGGATA TATTTGATAT ACTTCTGCCT AACAACATGG AAAAGGGTTT  1740
TCTTTTCCCT GCAAGCTACA TCCTACTGCT TTGAACTTCC AAGTATGTCT AGTCACCTTT  1800
TAAAATGTAA ACATTTTCAG AAAAATGAGG ATTGCCTTCC TTGTATGCGC TTTTTACCTT  1860
GACTACCTGA ATTGCAAGGG ATTTTTATAT ATTCATATGT TACAAAGTCA GCAACTCTCC  1920
TGTTGGTTCA TTATTGAATG TGCTGTAAAT TAAGTCGTTT GCAATTAAAA CAAGGTTTGC  1980
CCACATCCAA AAAAAAAAAA AAAAA
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Seq ID NO: 381 Protein sequence
Protein Accession #: CAB66876

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1          11         21         31         41         51
|          |          |          |          |          |
MKMVAPWTRF YSNSCCLCCH VRTGTILLGV WYLIINAVVL LILLSALADP DQYNFSSSEL    60
GGDFEFMDDA NMCIAIAISL LMILICAMAT YGAYKQRAAW IIPFFCYQIF DFALNMLVAI   120
TVLIYPNSIQ EYIRQLPPNF PYRDDVMSVN PTCLVLIILL FISIILTFKG YLISCVWNCY   180
RYINGRNSSD VLVYVTSNDT TVLLPPYDDA TVNGAAKEPP PPYVSA
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Seq ID NO: 382 DNA sequence
Nucleic Acid Accession #: NM_002510
Coding sequence: 92-1774

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1          11         21         31         41         51
|          |          |          |          |          |
CAGATGCCAG AAGAACACTG TTGCTCTTGG TGGACGGGCC CAGAGGAATT CAGAGTTAAA    60
CCTTGAGTGC CTGCGTCCGT GAGAATTCAG CATGGAATGT CTCTACTATT TCCTGGGATT   120
TCTGCTCCTG GCTGCAAGAT TGCCACTTGA TGCCGCCAAA CGATTTCATG ATGTGCTGGG   180
CAATGAAAGA CCTTCTGCTT ACATGAGGGA GCACAATCAA TTAAATGGCT GGTCTTCTGA   240
TGAAAATGAC TGGAATGAAA AACTCTACCC AGTGTGGAAG CGGGGAGACA TGAGGTGGAA   300
AAACTCCTGG AAGGGAGGCC GTGTGCAGGC GGTCCTGACC AGTGACTCAC CAGCCCTCGT   360
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GGGCTCAAAT ATAACATTTG CGGTGAACCT GATATTCCCT AGATGCCAAA AGGAAGATGC   420
CAATGGCAAC ATAGTCTATG AGAAGAACTG CAGAAATGAG GCTGGTTTAT CTGCTGATCC   480
ATATGTTTAC AACTGGACAG CATGGTCAGA GGACAGTGAC GGGGAAAATG GCACCGGCCA   540
AAGCCATCAT AACGTCTTCC CTGATGGGAA ACCTTTTCCT CACCACCCCG GATGGAGAAG   600
ATGGAATTTC ATCTACGTCT TCCACACACT TGGTCAGTAT TTCCAGAAAT TGGGACGATG   660
TTCAGTGAGA GTTTCTGTGA ACACAGCCAA TGTGACACTT GGGCCTCAAC TCATGGAAGT   720
GACTGTCTAC AGAAGACATG GACGGGCATA TGTTCCCATC GCACAAGTGA AAGATGTGTA   780
CGTGGTAACA GATCAGATTC CTGTGTTTGT GACTATGTTC CAGAAGAACG ATCGAAATTC   840
ATCCGACGAA ACCTTCCTCA AAGATCTCCC CATTATGTTT GATGTCCTGA TTCATGATCC   900
TAGCCACTTC CTCAATTATT CTACCATTAA CTACAAGTGG AGCTTCGGGG ATAATACTGG   960
CCTGTTTGTT TCCACCAATC ATACTGTGAA TCACACGTAT GTGCTCAATG GAACCTTCAG  1020
CCTTAACCTC ACTGTGAAAG CTGCAGCACC AGGACCTTGT CCGCCACCGC CACCACCACC  1080
CAGACCTTCA AAACCCACCC CTTCTTTAGG ACCTGCTGGT GACAACCCCC TGGAGCTGAG  1140
TAGGATTCCT GATGAAAACT GCCAGATTAA CAGATATGGC CACTTTCAAG CCACCATCAC  1200
AATTGTAGAG GGAATCTTAG AGGTTAACAT CATCCAGATG ACAGACGTCC TGATGCCGGT  1260
GCCATGGCCT GAAAGCTCCC TAATAGACTT TGTCGTGACC TGCCAAGGGA GCATTCCCAC  1320
GGAGGTCTGT ACCATCATTT CTGACCCCAC CTGCGAGATC ACCCAGAACA CAGTCTGCAG  1380
CCCTGTGGAT GTGGATGAGA TGTGTCTGCT GACTGTGAGA CGAACCTTCA ATGGGTCTGG  1440
GACGTACTGT GTGAACCTCA CCCTGGGGGA TGACACAAGC CTGGCTCTCA CGAGCACCCT  1500
GATTTCTGTT CCTGACAGAG ACCCAGCCTC GCCTTTAAGG ATGGCAAACA GTGCCCTGAT  1560
CTCCGTTGGC TGCTTGGCCA TATTTGTCAC TGTGATCTCC CTCTTGGTGT ACAAAAAACA  1620
CAAGGAATAC AACCCAATAG AAAATAGTCC TGGGAATGTG GTCAGAAGCA AAGGCCTGAG  1680
TGTCTTTCTC AACCGTGCAA AAGCCGTGTT CTTCCCGGGA AACCAGGAAA AGGATCCGCT  1740
ACTCAAAAAC CAAGAATTTA AAGGAGTTTC TTAAATTTCG ACCTTGTTTC TGAAGCTCAC  1800
TTTTCAGTGC CATTGATGTG AGATGTGCTG GAGTGGCTAT TAACCTTTTT TTCCTAAAGA  1860
TTATTGTTAA ATAGATATTG TGGTTTGGGG AAGTTGAATT TTTTATAGGT TAAATGTCAT  1920
TTTAGAGATG GGGAGAGGGA TTATACTGCA GGCAGCTTCA GCCATGTTGT GAAACTGATA  1980
AAAGCAACTT AGCAAGGCTT CTTTTCATTA TTTTTTATGT TTCACTTATA AAGTCTTAGG  2040
TAACTAGTAG GATAGAAACA CTGTGTCCCG AGAGTAAGGA GAGAAGCTAC TATTGATTAG  2100
AGCCTAACCC AGGTTAACTG CAAGAAGAGG CGGGATACTT TCAGCTTTCC ATGTAACTGT  2160
ATGCATAAAG CCAATGTAGT CCAGTTTCTA AGATCATGTT CCAAGCTAAC TGAATCCCAC  2220
TTCAATACAC ACTCATGAAC TCCTGATGGA ACAATAACAG GCCCAAGCCT GTGGTATGAT  2280
GTGCACACTT GCTAGACTCA GAAAAAATAC TACTCTCATA AATGGGTGGG AGTATTTTGG  2340
TGACAACCTA CTTTGCTTGG CTGAGTGAAG GAATGATATT CATATATTCA TTTATTCCAT  2400
GGACATTTAG TTAGTGCTTT TTATATACCA GGCATGATGC TGAGTGACAC TCTTGTGTAT  2460
ATTTCCAAAT TTTTGTATAG TCGCTGCACA TATTTGAAAT CATATATTAA GACTTTCCAA  2520
AGATGAGGTC CCTGGTTTTT CATGGCAACT TGATCAGTAA GGATTTCACC TCTGTTTGTA  2580
ACTAAAACCA TCTACTATAT GTTAGACATG ACATTCTTTT TCTCTCCTTC CTGAAAAATA  2640
AAGTGTGGGA AGAGACAAAA AAAAAAAAA
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Seq ID NO: 383 Protein sequence
Protein Accession #: NP_002501

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1          11         21         31         41         51
|          |          |          |          |          |
MECLYYFLGF LLLAARLPLD AAKRFHDVLG NERPSAYMRE HNQLNGWSSD ENDWNEKLYP    60
VWKRGDMRWK NSWKGGRVQA VLTSDSPALV GSNITFAVNL IFPRCQKEDA NGNIVYEKNC   120
RNEAGLSADP YVYNWTAWSE DSDGENGTGQ SHHNVFPDGK PFPHHPGWRR WNFIYVFHTL   180
GQYFQKLGRC SVRVSVNTAN VTLGPQLMEV TVYRRHGRAY VPIAQVKDVY VVTDQIPVFV   240
TMFQKNDRNS SDETFLKDLP IMFDVLIHDP SHFLNYSTIN YKWSFGDNTG LFVSTNHTVN   300
HTYVLNGTFS LNLTVKAAAP GPCPPPPPPP RPSKPTPSLG PAGDNPLELS RIPDENCQIN   360
RYGHFQATIT IVEGILEVNI IQMTDVLMPV PWPESSLIDF VVTCQGSIPT EVCTIISDPT   420
CEITQNTVCS PVDVDEMCLL TVRRTFNGSG TYCVNLTLGD DTSLALTSTL ISVPDRDPAS   480
PLRMANSALI SVGCLAIFVT VISLLVYKKH KEYNPIENSP GNVVRSKGLS VFLNRAKAVF   540
FPGNQEKDPL LKNQEFKGVS
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Seq ID NO: 384 DNA sequence
Nucleic Acid Accession #: NM_001134
Coding sequence: 48-1877

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1          11         21         31         41         51
|          |          |          |          |          |
TCCATATTGT GCTTCCACCA CTGCCAATAA CAAAATAACT AGCAACCATG AAGTGGGTGG    60
AATCAATTTT TTTAATTTTC CTACTAAATT TTACTGAATC CAGAACACTG CATAGAAATG   120
AATATGGAAT AGCTTCCATA TTGGATTCTT ACCAATGTAC TGCAGAGATA AGTTTAGCTG   180
ACCTGGCTAC CATATTTTTT GCCCAGTTTG TTCAAGAAGC CACTTACAAG GAAGTAAGCA   240
AAATGGTGAA AGATGCATTG ACTGCAATTG AGAAACCCAC TGGAGATGAA CAGTCTTCAG   300
GGTGTTTAGA AAACCAGCTA CCTGCCTTTC TGGAAGAACT TTGCCATGAG AAAGAAATTT   360
TGGAGAAGTA CGGACATTCA GACTGCTGCA GCCAAAGTGA AGAGGGAAGA CATAACTGTT   420
TTCTTGCACA CAAAAAGCCC ACTCCAGCAT CGATCCCACT TTTCCAAGTT CCAGAACCTG   480
TCACAAGCTG TGAAGCATAT GAAGAAGACA GGGAGACATT CATGAACAAA TTCATTTATG   540
AGATAGCAAG AAGGCATCCC TTCCTGTATG CACCTACAAT TCTTCTTTGG GCTGCTCGCT   600
ATGACAAAAT AATTCCATCT TGCTGCAAAG CTGAAAATGC AGTTGAATGC TTCCAAACAA   660
AGGCAGCAAC AGTTACAAAA GAATTAAGAG AAAGCAGCTT GTTAAATCAA CATGCATGTG   720
CAGTAATGAA AAATTTTGGG ACCCGAACTT TCCAAGCCAT AACTGTTACT AAACTGAGTC   780
AGAAGTTTAC CAAAGTTAAT TTTACTGAAA TCCAGAAACT AGTCCTGGAT GTGGCCCATG   840
TACATGAGCA CTGTTGCAGA GGAGATGTGC TGGATTGTCT GCAGGATGGG GAAAAAATCA   900
TGTCCTACAT ATGTTCTCAA CAAGACACTC TGTCAAACAA AATAACAGAA TGCTGCAAAC   960
TGACCACGCT GGAACGTGGT CAATGTATAA TTCATGCAGA AAATGATGAA AAACCTGAAG  1020
GTCTATCTCC AAATCTAAAC AGGTTTTTAG GAGATAGAGA TTTTAACCAA TTTTCTTCAG  1080
GGGAAAAAAA TATCTTCTTG GCAAGTTTTG TTCATGAATA TTCAAGAAGA CATCCTCAGC  1140
TTGCTGTCTC AGTAATTCTA AGAGTTGCTA AAGGATACCA GGAGTTATTG GAGAAGTGTT  1200
TCCAGACTGA AAACCCTCTT GAATGCCAAG ATAAAGGAGA AGAAGAATTA CAGAAATACA  1260
TCCAGGAGAG CCAAGCATTG GCAAAGCGAA GCTGCGGCCT CTTCCAGAAA CTAGGAGAAT  1320
ATTACTTACA AAATGCGTTT CTCGTTGCTT ACACAAAGAA AGCCCCCCAG CTGACCTCGT  1380
CGGAGCTGAT GGCCATCACC AGAAAAATGG CAGCCACAGC AGCCACTTGT TGCCAACTCA  1440
GTGAGGACAA ACTATTGGCC TGTGGCGAGG GAGCGGCTGA CATTATTATC GGACACTTAT  1500
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GTATCAGACA TGAAATGACT CCAGTAAACC CTGGTGTTGG CCAGTGCTGC ACTTCTTCAT  1560
ATGCCAACAG GAGGCCATGC TTCAGCAGCT TGGTGGTGGA TGAAACATAT GTCCCTCCTG  1620
CATTCTCTGA TGACAAGTTC ATTTTCCATA AGGATCTGTG CCAAGCTCAG GGTGTAGCGC  1680
TGCAAACGAT GAAGCAAGAG TTTCTCATTA ACCTTGTGAA GCAAAAGCCA CAAATAACAG  1740
AGGAACAACT TGAGGCTGTC ATTGCAGATT TCTCAGGCCT GTTGGAGAAA TGCTGCCAAG  1800
GCCAGGAACA GGAAGTCTGC TTTGCTGAAG AGGGACAAAA ACTGATTTCA AAAACTCGTG  1860
CTGCTTTGGG AGTTTAAATT ACTTCAGGGG AAGAGAAGAC AAAACGAGTC TTTCATTCGG  1920
TGTGAACTTT TCTCTTTAAT TTTAACTGAT TTAACACTTT TTGTGAATTA ATGAAATGAT  1980
AAAGACTTTT ATGTGAGATT TCCTTATCAC AGAAATAAAA TATCTCCAAA TG
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Seq ID NO: 385 Protein sequence
Protein Accession #: NP_001125

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1          11         21         31         41         51
|          |          |          |          |          |
MKWVESIFLI FLLNFTESRT LHRNEYGIAS ILDSYQCTAE ISLADLATIF FAQFVQEATY    60
KEVSKMVKDA LTAIEKPTGD EQSSGCLENQ LPAFLEELCH EKEILEKYGH SDCCSQSEEG   120
RHNCFLAHKK PTPASIPLFQ VPEPVTSCEA YEEDRETFMN KFIYEIARRH PFLYAPTILL   180
WAARYDKIIP SCCKAENAVE CFQTKAATVT KELRESSLLN QHACAVMKNF GTRTFQAITV   240
TKLSQKFTKV NFTEIQKLVL DVAHVHEHCC RGDVLDCLQD GEKIMSYICS QQDTLSNKIT   300
ECCKLTTLER GQCIIHAEND EKPEGLSPNL NRFLGDRDFN QFSSGEKNIF LASFVHEYSR   360
RHPQLAVSVI LRVAKGYQEL LEKCFQTENP LECQDKGEEE LQKYIQESQA LAKRSCGLFQ   420
KLGEYYLQNA FLVAYTKKAP QLTSSELMAI TRKMAATAAT CCQLSEDKLL ACGEGAADII   480
IGHLCIRHEM TPVNPGVGQC CTSSYANRRP CFSSLVVDET YVPPAFSDDK FIFHKDLCQA   540
QGVALQTMKQ EFLINLVKQK PQITEEQLEA VIADFSGLLE KCCQGQEQEV CFAEEGQKLI   600
SKTRAALGV
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Seq ID NO: 386 DNA sequence
Nucleic Acid Accession #: NM_002205.1
Coding sequence: 1..3149

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1          11         21         31         41         51
|          |          |          |          |          |
ATGGGGAGCC GGACGCCAGA GTCCCCTCTC CACGCCGTGC AGCTGCGCTG GGGCCCCCGG    60
CGCCGACCCC CGCTSSTGCC GCTGCTGTTG CTGCTSSTGC CGCCGCCACC CAGGGTCGGG   120
GGCTTCAACT TAGACGCGGA GGCCCCAGCA GTACTCTCGG GGCCCCCGGG CTCCTTCTTC   180
GGATTCTCAG TGGAGTTTTA CCGGCCGGGA ACAGACGGGG TCAGTGTGCT GGTGGGAGCA   240
CCCAAGGCTA ATACCAGCCA GCCAGGAGTG CTGCAGGGTG GTGCTGTCTA CCTCTGTCCT   300
TGGGGTGCCA GCCCCACACA GTGCACCCCC ATTGAATTTG ACAGCAAAGG CTCTCGGCTC   360
CTGGAGTCCT CACTGTCCAG CTCAGAGGGA GAGGAGCCTG TGGAGTACAA GTCCTTGCAG   420
TGGTTCGGGG CAACAGTTCG AGCCCATGGC TCCTCCATCT TGGCATGCGC TCCACTGTAC   480
AGCTGGCGCA CAGAGAAGGA GCCACTGAGC GACCCCGTGG GCACCTGCTA CCTCTCCACA   540
GATAACTTCA CCCGAATTCT GGAGTATGCA CCCTGCCGCT CAGATTTCAG CTGGGCAGCA   600
GGACAGGGTT ACTGCCAAGG AGGCTTCAGT GCCGAGTTCA CCAAGACTGG CCGTGTGGTT   660
TTAGGTGGAC CAGGAAGCTA TTTCTGGCAA GGCCAGATCC TGTCTGCCAC TCAGGAGCAG   720
ATTGCAGAAT CTTATTACCC CGAGTACCTG ATCAACCTGG TTCAGGGGCA GCTGCAGACT   780
CGCCAGGCCA GTTCCATCTA TGATGACAGC TACCTAGGAT ACTCTGTGGC TGTTGGTGAA   840
TTCAGTGGTG ATGACACAGA AGACTTTGTT GCTGGTGTGC CCAAAGGGAA CCTCACTTAC   900
GGCTATGTCA CCATCCTTAA TGGCTCAGAC ATTCGATCCC TCTACAACTT CTCAGGGGAA   960
CAGATGGCCT CCTACTTTGG CTATGCAGTG GCCGCCACAG ACGTCAATGG GGACGGGCTG  1020
GATGACTTGC TGGTGGGGGC ACCCCTGCTC ATGGATCGGA CCCCTGACGG GCGGCCTCAG  1080
GAGGTGGGCA GGGTCTACGT CTACCTGCAG CACCCAGCCG GCATAGAGCC CACGCCCACC  1140
CTTACCCTCA CTGGCCATGA TGAGTTTGGC CGATTTGGCA GCTCCTTGAC CCCCCTGGGG  1200
GACCTGGACC AGGATGGCTA CAATGATGTG GCCATCGGGG CTCCCTTTGG TGGGGAGACC  1260
CAGCAGGGAG TAGTGTTTGT ATTTCCTGGG GGCCCAGGAG GGCTGGGCTC TAAGCCTTCC  1320
CAGGTTCTGC AGCCCCTGTG GGCAGCCAGC CACACCCCAG ACTTCTTTGG CTCTGCCCTT  1380
CGAGGAGGCC GAGACCTGGA TGGCAATGGA TATCCTGATC TGATTGTGGG GTCCTTTGGT  1440
GTGGACAAGG CTGTGGTATA CAGGGGCCGC CCCATCGTGT CCGCTAGTGC CTCCCTCACC  1500
ATCTTCCCCG CCATGTTCAA CCCAGAGGAG CGGAGCTGCA GCTTAGAGGG GAACCCTGTG  1560
GCCTGCATCA ACCTTAGCTT CTGCCTCAAT GCTTCTGGAA AACACGTTGC TGACTCCATT  1620
GGTTTCACAG TGGAACTTCA GCTGGACTGG CAGAAGCAGA AGGGAGGGGT ACGGCGGGCA  1680
CTGTTCCTGG CCTCCAGGCA GGCAACCCTG ACCCAGACCC TGCTCATCCA GAATGGGGCT  1740
CGAGAGGATT GCAGAGAGAT GAAGATCTAC CTCAGGAACG AGTCAGAATT TCGAGACAAA  1800
CTCTCGCCGA TTCACATCGC TCTCAACTTC TCCTTGGACC CCCAAGCCCC AGTGGACAGC  1860
CACGGCCTCA GGCCAGCCCT ACATTATCAG AGCAAGAGCC GGATAGAGGA CAAGGCTCAG  1920
ATCTTGCTGG ACTGTGGAGA AGACAACATC TGTGTGCCTG ACCTGCAGCT GGAAGTGTTT  1980
GGGGAGCAGA ACCATGTGTA CCTGGGTGAC AAGAATGCCC TGAACCTCAC TTTCCATGCC  2040
CAGAATGTGG GTGAGGGTGG CGCCTATGAG GCTGAGCTTC GGGTCACCGC CCCTCCAGAG  2100
GCTGAGTACT CAGGACTCGT CAGACACCCA GGGAACTTCT CCAGCCTGAG CTGTGACTAC  2160
TTTGCCGTGA ACCAGAGCCG CCTGCTGGTG TGTGACCTGG GCAACCCCAT GAAGGCAGGA  2220
GCCAGTCTGT GGGGTGGCCT TCGGTTTACA GTCCCTCATC TCCGGGACAC TAAGAAAACC  2280
ATCCAGTTTG ACTTCCAGAT CCTCAGCAAG AATCTCAACA ACTCGCAAAG CGACGTGGTT  2340
TCCTTTCGGC TCTCCGTGGA GGCTCAGGCC CAGGTCACCC TGAACGGTGT CTCCAAGCCT  2400
GAGGCAGTGC TATTCCCAGT AAGCGACTGG CATCCCCGAG ACCAGCCTCA GAAGGAGGAG  2460
GACCTGGGAC CTGCTGTCCA CCATGTCTAT GAGCTCATCA ACCAAGGCCC CAGCTCCATT  2520
AGCCAGGGTG TGCTGGAACT CAGCTGTCCC CAGGCTCTGG AAGGTCAGCA GCTCCTATAT  2580
GTGACCAGAG TTACGGGACT CAACTGCACC ACCAATCACC CCATTAACCC AAAGGGCCTG  2640
GAGTTGGATC CCGAGGGTTC CCTGCACCAC CAGCAAAAAC GGGAAGCTCC AAGCCGCAGC  2700
TCTGCTTCCT CGGGACCTCA GATCCTGAAA TGCCCGGAGG CTGAGTGTTT CAGGCTGCGC  2760
TGTGAGCTCG GGCCCCTGCA CCAACAAGAG AGCCAAAGTC TGCAGTTGCA TTTCCGAGTC  2820
TGGGCCAAGA CTTTCTTGCA GCGGGAGCAC CAGCCATTTA GCCTGCAGTG TGAGGCTGTG  2880
TACAAAGCCC TGAAGATGCC CTACCGAATC CTGCCTCGGC AGCTGCCCCA AAAAGAGCGT  2940
CAGGTGGCCA CAGCTGTGCA ATGGACCAAG GCAGAAGGCA GCTATGGCGT CCCACTGTGG  3000
ATCATCATCC TAGCCATCCT GTTTGGCCTC CTGCTCCTAG GTCTACTCAT CTACATCCTC  3060
TACAAGCTTG GATTCTTCAA ACGCTCCCTC CCATATGGCA CCGCCATGGA AAAAGCTCAG  3120
CTCAAGCCTC CAGCCACCTC TGATGCCTGA
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Seq ID NO: 387 Protein sequence
Protein Accession #: NP_002196.1

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1           11          21          31          41          51
|           |           |           |           |           |
MGSRTPESPL HAVQLRWGPR RRPPLLPLLL LLLPPPPRVG GFNLDAEAPA VLSGPPGSFF    60
GFSVEFYRPG TDGVSVLVGA PKANTSQPGV LQGGAVYLCP WGASPTQCTP IEFDSKGSRL   120
LESSLSSSEG EEPVEYKSLQ WFGATVRAHG SSILACAPLY SWRTEKEPLS DPVGTCYLST   180
DNFTRILEYA PCRSDFSWAA GQGYCQGGFS AEFTKTGRVV LGGPGSYFWQ GQILSATQEQ   240
IAESYYPEYL INLVQGQLQT RQASSIYDDS YLGYSVAVGE FSGDDTEDFV AGVPKGNLTY   300
GYVTILNGSD IRSLYNFSGE QMASYFGYAV AATDVNGDGL DDLLVGAPLL MDRTPDGRPQ   360
EVGRVYVYLQ HPAGIEPTPT LTLTGHDEFG RFGSSLTPLG DLDQDGYNDV AIGAPFGGET   420
QQGVVFVFPG GPGGLGSKPS QVLQPLWAAS HTPDFFGSAL RGGRDLDGNG YPDLIVGSFG   480
VDKAVVYRGR PIVSASASLT IFPAMFNPEE RSCSLEGNPV ACINLSFCLN ASGKHVADSI   540
GFTVELQLDW QKQKGGVRRA LFLASRQATL TQTLLIQNGA REDCREMKIY LRNESEFRDK   600
LSPIHIALNF SLDPQAPVDS HGLRPALHYQ SKSRIEDKAQ ILLDCGEDNI CVPDLQLEVF   660
GEQNHVYLGD KNALNLTFHA QNVGEGGAYE AELRVTAPPE AEYSGLVRHP GNFSSLSCDY   720
FAVNQSRLLV CDLGNPMKAG ASLWGGLRFT VPHLRDTKKT IQFDFQILSK NLNNSQSDVV   780
SFRLSVEAQA QVTLNGVSKP EAVLFPVSDW HPRDQPQKEE DLGPAVHHVY ELINQGPSSI   840
SQGVLELSCP QALEGQQLLY VTRVTGLNCT TNHPINPKGL ELDPEGSLHH QQKREAPSRS   900
SASSGPQILK CPEAECFRLR CELGPLHQQE SQSLQLHFRV WAKTFLQREH QPFSLQCEAV   960
YKALKMPYRI LPRQLPQKER QVATAVQWTK AEGSYGVPLW IIILAILFGL LLLGLLIYIL  1020
YKLGFFKRSL PYGTAMEKAQ LKPPATSDA
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Seq ID NO: 388 DNA sequence
Nucleic Acid Accession #: NM_002425
Coding sequence: 26..1453

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1           11          21          31          41          51
|           |           |           |           |           |
AAAGAAGGTA AGGGCAGTGA GAATGATGCA TCTTGCATTC CTTGTGCTGT TGTGTCTGCC    60
AGTCTGCTCT GCCTATCCTC TGAGTGGGGC AGCAAAAGAG GAGGACTCCA ACAAGGATCT   120
TGCCCAGCAA TACCTAGAAA AGTACTACAA CCTCGAAAAG GATGTGAAAC AGTTTAGAAG   180
AAAGGACAGT AATCTCATTG TTAAAAAAAT CCAAGGAATG CAGAAGTTCC TTGGGTTGGA   240
GGTGACAGGG AAGCTAGACA CTGACACTCT GGAGGTGATG CGCAAGCCCA GGTGTGGAGT   300
TCCTGACGTT GGTCACTTCA GCTCCTTTCC TGGCATGCCG AAGTGGAGGA AAACCCACCT   360
TACATACAGG ATTGTGAATT ATACACCAGA TTTGCCAAGA GATGCTGTTG ATTCTGCCAT   420
TGAGAAAGCT CTGAAAGTCT GGGAAGAGGT GACTCCACTC ACATTCTCCA GGCTGTATGA   480
AGGAGAGGCT GATATAATGA TCTCTTTCGC AGTTAAAGAA CATGGAGACT TTTACTCTTT   540
TGATGGCCCA GGACACAGTT TGGCTCATGC CTACCCACCT GGACCTGGGC TTTATGGAGA   600
TATTCACTTT GATGATGATG AAAAATGGAC AGAAGATGCA TCAGGCACCA ATTTATTCCT   660
CGTTGCTGCT CATGAACTTG GCCACTCCCT GGGGCTCTTT CACTCAGCCA ACACTGAAGC   720
TTTGATGTAC CCACTCTACA ACTCATTCAC AGAGCTCGCC CAGTTCCGCC TTTCGCAAGA   780
TGATGTGAAT GGCATTCAGT CTCTCTACGG ACCTCCCCCT GCCTCTACTG AGGAACCCCT   840
GGTGCCCACA AAATCTGTTC CTTCGGGATC TGAGATGCCA GCCAAGTGTG ATCCTGCTTT   900
GTCCTTCGAT GCCATCAGCA CTCTGAGGGG AGAATATCTG TTCTTTAAAG ACAGATATTT   960
TTGGCGAAGA TCCCACTGGA ACCCTGAACC TGAATTTCAT TTGATTTCTG CATTTTGGCC  1020
CTCTCTTCCA TCATATTTGG ATGCTGCATA TGAAGTTAAC AGCAGGGACA CCGTTTTTAT  1080
TTTTAAAGGA AATGAGTTCT GGGCCATCAG AGGAAATGAG GTACAAGCAG GTTATCCAAG  1140
AGGCATCCAT ACCCTGGGTT TTCCTCCAAC CATAAGGAAA ATTGATGCAG CTGTTTCTGA  1200
CAAGGAAAAG AAGAAAACAT ACTTCTTTGC AGCGGACAAA TACTGGAGAT TTGATGAAAA  1260
TAGCCAGTCC ATGGAGCAAG GCTTCCCTAG ACTAATAGCT GATGACTTTC CAGGAGTTGA  1320
GCCTAAGGTT GATGCTGTAT TACAGGCATT TGGATTTTTC TACTTCTTCA GTGGATCATC  1380
ACAGTTTGAG TTTGACCCCA ATGCCAGGAT GGTGACACAC ATATTAAAGA GTAACAGCTG  1440
GTTACATTGC TAGGCGAGAT AGGGGGAAGA CAGATATGGG TGTTTTTAAT AAATCTAATA  1500
ATTATTCATC TAATGTATTA TGAGCCAAAA TGGTTAATTT TTCCTGCATG TTCTGTGACT  1560
GAAGAAGATG AGCCTTGCAG ATATCTGCAT GTGTCATGAA GAATGTTTCT GGAATTCTTC  1620
ACTTGCTTTT GAATTGCACT GAACAGAATT AAGAAATACT CATGTGCAAT AGGTGAGAGA  1680
ATGTATTTTC ATAGATGTGT TATTACTTCC TCAATAAAAA GTTTTATTTT GGGCCTGTTC  1740
CTT
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Seq ID NO: 389 Protein sequence
Protein Accession #: NP_002416

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1           11          21          31          41          51
|           |           |           |           |           |
MHLAFLVLLC LPVCSAYPLS GAAKEEDSNK DLAQQYLEKY YNLEKDVKQF RRKDSNLIVK    60
KIQGMQKFLG LEVTGKLDTD TLEVMRKPRC GVPDVGHFSS FPGMPKWRKT HLTYRIVNYT   120
PDLPRDAVDS AIEKALKVWE EVTPLTFSRL YEGEADIMIS FAVKEHGDFY SFDGPGHSLA   180
HAYPPGPGLY GDIHFDDDEK WTEDASGTNL FLVAAHELGH SLGLFHSANT EALMYPLYNS   240
FTELAQFRLS QDDVNGIQSL YGPPPASTEE PLVPTKSVPS GSEMPAKCDP ALSFDAISTL   300
RGEYLFFKDR YFWRRSHWNP EPEFHLISAF WPSLPSYLDA AYEVNSRDTV FIFKGNEFWA   360
IRGNEVQAGY PRGIHTLGFP PTIRKIDAAV SDKEKKKTYF FAADKYWRFD ENSQSMEQGF   420
PRLIADDFPG VEPKVDAVLQ AFGFFYFFSG SSQFEFDPNA RMVTHILKSN SWLHC
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Seq ID NO: 390 DNA sequence
Nucleic Acid Accession #: NM_002421.2
Coding sequence: 1..1409

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1           11          21          31          41          51
|           |           |           |           |           |
ATGCACAGCT TTCCTCCACT GCTGCTGCTG CTGTTCTGGG GTGTGGTGTC ACACAGCTTC    60
CCAGCGACTC TAGAAACACA AGAGCAAGAT GTGGACTTAG TCCAGAAATA CCTGGAAAAA   120
TACTACAACC TGAAGAATGA TGGGAGGCAA GTTGAAAAGC GGAGAAATAG TGGCCCAGTG   180
GTTGAAAAAT TGAAGCAAAT GCAGGAATTC TTTGGGCTGA AAGTGACTGG GAAACCAGAT   240
GCTGAAACCC TGAAGGTGAT GAAGCAGCCC AGATGTGGAG TGCCTGATGT GGCTCAGTTT   300
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GTCCTCACTG AGGGGAACCC TCGCTGGGAG CAAACACATC TGACCTACAG GATTGAAAAT   360
TACACGCCAG ATTTGCCAAG AGCAGATGTG GACCATGCCA TTGAGAAAGC CTTCCAACTC   420
TGGAGTAATG TCACACCTCT GACATTCACC AAGGTCTCTG AGGGTCAAGC AGACATCATG   480
ATATCTTTTG TCAGGGGAGA TCATCGGGAC AACTCTCCTT TTGATGGACC TGGAGGAAAT   540
CTTGCTCATG CTTTTCAACC AGGCCCAGGT ATTGGAGGGG ATGCTCATTT TGATGAAGAT   600
GAAAGGTGGA CCAACAATTT CAGAGAGTAC AACTTACATC GTGTTGCGGC TCATGAACTC   660
GGCCATTCTC TTGGACTCTC CCATTCTACT GATATCGGGG CTTTGATGTA CCCTAGCTAC   720
ACCTTCAGTG GTGATGTTCA GCTAGCTCAG GATGACATTG ATGGCATCCA AGCCATATAT   780
GGACGTTCCC AAAATCCTGT CCAGCCCATC GGCCCACAAA CCCCAAAAGC ATGTGACAGT   840
AAGCTAACCT TTGATGCTAT AACTACGATT CGGGGAGAAG TGATGTTCTT TAAAGACAGA   900
TTCTACATGC GCACAAATCC CTTCTACCCG GAAGTTGAGC TCAATTTCAT TTCTGTTTTC   960
TGGCCACAAC TGCCAAATGG GCTTGAAGCT GCTTACGAAT TTGCCGACAG AGATGAAGTC  1020
CGGTTTTTCA AAGGGAATAA GTACTGGGCT GTTCAGGGAC AGAATGTGCT ACACGGATAC  1080
CCCAAGGACA TCTACAGCTC CTTTGGCTTC CCTAGAACTG TGAAGCATAT CGATGCTGCT  1140
CTTTCTGAGG AAAACACTGG AAAAACCTAC TTCTTTGTTG CTAACAAATA CTGGAGGTAT  1200
GATGAATATA AACGATCTAT GGATCCAGGT TATCCCAAAA TGATAGCACA TGACTTTCCT  1260
GGAATTGGCC ACAAAGTTGA TGCAGTTTTC ATGAAAGATG GATTTTTCTA TTTCTTTCAT  1320
GGAACAAGAC AATACAAATT TGATCCTAAA ACGAAGAGAA TTTTGACTCT CCAGAAAGCT  1380
AATAGCTGGT TCAACTGCAG GAAAAATTAG
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Seq ID NO: 391 Protein sequence
Protein Accession #: NP_002412.1

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1           11          21          31          41          51
|           |           |           |           |           |
MHSFPPLLLL LFWGVVSHSF PATLETQEQD VDLVQKYLEK YYNLKNDGRQ VEKRRNSGPV    60
VEKLKQMQEF FGLKVTGKPD AETLKVMKQP RCGVPDVAQF VLTEGNPRWE QTHLTYRIEN   120
YTPDLPRADV DHAIEKAFQL WSNVTPLTFT KVSEGQADIM ISFVRGDHRD NSPFDGPGGN   180
LAHAFQPGPG IGGDAHFDED ERWTNNFREY NLHRVAAHEL GHSLGLSHST DIGALMYPSY   240
TFSGDVQLAQ DDIDGIQAIY GRSQNPVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR   300
FYMRTNPFYP EVELNFISVF WPQLPNGLEA AYEFADRDEV RFFKGNKYWA VQGQNVLHGY   360
PKDIYSSFGF PRTVKHIDAA LSEENTGKTY FFVANKYWRY DEYKRSMDPG YPKMIAHDFP   420
GIGHKVDAVF MKDGFFYFFH GTRQYKFDPK TKRILTLQKA NSWFNCRKN
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Seq ID NO: 392 DNA sequence
Nucleic Acid Accession #: NM_002421.2
Coding sequence: 1..1409

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1           11          21          31          41          51
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CCAGCGACTC TAGAAACACA AGAGCAAGAT GTGGACTTAG TCCAGAAATA CCTGGAAAAA   120
TACTACAACC TGAAGAATGA TGGGAGGCAA GTTGAAAAGC GGAGAAATAG TGGCCCAGTG   180
GTTGAAAAAT TGAAGCAAAT GCAGGAATTC TTTGGGCTGA AAGTGACTGG GAAACCAGAT   240
GCTGAAACCC TGAAGGTGAT GAAGCAGCCC AGATGTGGAG TGCCTGATGT GGCTCAGTTT   300
GTCCTCACTG AGGGGAACCC TCGCTGGGAG CAAACACATC TGACCTACAG GATTGAAAAT   360
TACACGCCAG ATTTGCCAAG AGCAGATGTG GACCATGCCA TTGAGAAAGC CTTCCAACTC   420
TGGAGTAATG TCACACCTCT GACATTCACC AAGGTCTCTG AGGGTCAAGC AGACATCATG   480
ATATCTTTTG TCAGGGGAGA TCATCGGGAC AACTCTCCTT TTGATGGACC TGGAGGAAAT   540
CTTGCTCATG CTTTTCAACC AGGCCCAGGT ATTGGAGGGG ATGCTCATTT TGATGAAGAT   600
GAAAGGTGGA CCAACAATTT CAGAGAGTAC AACTTACATC GTGTTGCGGC TCATGCCCTC   660
GGCCATTCTC TTGGACTCTC CCATTCTACT GATATCGGGG CTTTGATGTA CCCTAGCTAC   720
ACCTTCAGTG GTGATGTTCA GCTAGCTCAG GATGACATTG ATGGCATCCA AGCCATATAT   780
GGACGTTCCC AAAATCCTGT CCAGCCCATC GGCCCACAAA CCCCAAAAGC ATGTGACAGT   840
AAGCTAACCT TTGATGCTAT AACTACGATT CGGGGAGAAG TGATGTTCTT TAAAGACAGA   900
TTCTACATGC GCACAAATCC CTTCTACCCG GAAGTTGAGC TCAATTTCAT TTCTGTTTTC   960
TGGCCACAAC TGCCAAATGG GCTTGAAGCT GCTTACGAAT TTGCCGACAG AGATGAAGTC  1020
CGGTTTTTCA AAGGGAATAA GTACTGGGCT GTTCAGGGAC AGAATGTGCT ACACGGATAC  1080
CCCAAGGACA TCTACAGCTC CTTTGGCTTC CCTAGAACTG TGAAGCATAT CGATGCTGCT  1140
CTTTCTGAGG AAAACACTGG AAAAACCTAC TTCTTTGTTG CTAACAAATA CTGGAGGTAT  1200
GATGAATATA AACGATCTAT GGATCCAGGT TATCCCAAAA TGATAGCACA TGACTTTCCT  1260
GGAATTGGCC ACAAAGTTGA TGCAGTTTTC ATGAAAGATG GATTTTTCTA TTTCTTTCAT  1320
GGAACAAGAC AATACAAATT TGATCCTAAA ACGAAGAGAA TTTTGACTCT CCAGAAAGCT  1380
AATAGCTGGT TCAACTGCAG GAAAAATTAG
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Seq ID NO: 393 Protein sequence
Protein Accession #: NP_002412.1

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1           11          21          31          41          51
|           |           |           |           |           |
MHSFPPLLLL LFWGVVSHSF PATLETQEQD VDLVQKYLEK YYNLKNDGRQ VEKRRNSGPV    60
VEKLKQMQEF FGLKVTGKPD AETLKVMKQP RCGVPDVAQF VLTEGNPRWE QTHLTYRIEN   120
YTPDLPRADV DHAIEKAFQL WSNVTPLTFT KVSEGQADIM ISFVRGDHRD NSPFDGPGGN   180
LAHAFQPGPG IGGDAHFDED ERWTNNFREY NLHRVAAHAL GHSLGLSHST DIGALMYPSY   240
TFSGDVQLAQ DDIDGIQAIY GRSQNPVQPI GPQTPKACDS KLTFDAITTI RGEVMFFKDR   300
FYMRTNPFYP EVELNFISVF WPQLPNGLEA AYEFADRDEV RFFKGNKYWA VQGQNVLHGY   360
PKDIYSSFGF PRTVKHIDAA LSEENTGKTY FFVANKYWRY DEYKRSMDPG YPKMIAHDFP   420
GIGHKVDAVF MKDGFFYFFH GTRQYKFDPK TKRILTLQKA NSWFNCRKN
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Seq ID NO: 394 DNA sequence
Nucleic Acid Accession #: NM_014331.2
Coding sequence: 1..1506

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1           11          21          31          41          51
|           |           |           |           |           |
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ATGGTCAGAA AGCCTGTTGT GTCCACCATC TCCAAAGGAG GTTACCTGCA GGGAAATGTT    60
AACGGGAGGC TGCCTTCCCT GGGCAACAAG GAGCCACCTG GGCAGGAGAA AGTGCAGCTG   120
AAGAGGAAAG TCACTTTACT GAGGGGAGTC TCCATTATCA TTGGCACCAT CATTGGAGCA   180
GGAATCTTCA TCTCTCCTAA GGGCGTGCTC CAGAACACGG GCAGCGTGGG CATGTCTCTG   240
ACCATCTGGA CGGTGTGTGG GGTCCTGTCA CTATTTGGAG CTTTGTCTTA TGCTGAATTG   300
GGAACAACTA TAAAGAAATC TGGAGGTCAT TACACATATA TTTTGGAAGT CTTTGGTCCA   360
TTACCAGCTT TTGTACGAGT CTGGGTGGAA CTCCTCATAA TACGCCCTGC AGCTACTGCT   420
GTGATATCCC TGGCATTTGG ACGCTACATT CTGGAACCAT TTTTTATTCA ATGTGAAATC   480
CCTGAACTTG CGATCAAGCT CATTACAGCT GTGGGCATAA CTGTAGTGAT GGTCCTAAAT   540
AGCATGAGTG TCAGCTGGAG CGCCCGGATC CAGATTTTCT TAACCTTTTG CAAGCTCACA   600
GCAATTCTGA TAATTATAGT CCCTGGAGTT ATGCAGCTAA TTAAAGGTCA AACGCAGAAC   660
TTTAAAGACG CGTTTTCAGG AAGAGATTCA AGTATTACGC GGTTGCCACT GGCTTTTTAT   720
TATGGAATGT ATGCATATGC TGGCTGGTTT TACCTCAACT TTGTTACTGA AGAAGTAGAA   780
AACCCTGAAA AAACCATTCC CCTTGCAATA TGTATATCCA TGGCCATTGT CACCATTGGC   840
TATGTGCTGA CAAATGTGGC CTACTTTACG ACCATTAATG CTGAGGAGCT GCTGCTTTCA   900
AATGCAGTGG CAGTGACCTT TTCTGAGCGG CTACTGGGAA ATTTCTCATT AGCAGTTCCG   960
ATCTTTGTTG CCCTCTCCTG CTTTGGCTCC ATGAACGGTG GTGTGTTTGC TGTCTCCAGG  1020
TTATTCTATG TTGCGTCTCG AGAGGGTCAC CTTCCAGAAA TCCTCTCCAT GATTCATGTC  1080
CGCAAGCACA CTCCTCTACC AGCTGTTATT GTTTTGCACC CTTTGACAAT GATAATGCTC  1140
TTCTCTGGAG ACCTCGACAG TCTTTTGAAT TTCCTCAGTT TTGCCAGGTG GCTTTTTATT  1200
GGGCTGGCAG TTGCTGGGCT GATTTATCTT CGATACAAAT GCCCAGATAT GCATCGTCCT  1260
TTCAAGGTGC CACTGTTCAT CCCAGCTTTG TTTTCCTTCA CATGCCTCTT CATGGTTGCC  1320
CTTTCCCTCT ATTCGGACCC ATTTAGTACA GGGATTGGCT TCGTCATCAC TCTGACTGGA  1380
GTCCCTGCGT ATTATCTCTT TATTATATGG GACAAGAAAC CCAGGTGGTT TAGAATAATG  1440
TCAGAGAAAA TAACCAGAAC ATTACAAATA ATACTGGAAG TTGTACCAGA AGAAGATAAG  1500
TTATGAACTA ATGGACTTGA GATCTTGGCA ATCTGCCCAA GGGGAGACAC AAAATAGGGA  1560
TTTTTACTTC ATTTTCTGAA AGTCTAGAGA ATTACAACTT TGGTGATAAA CAAAAGGAGT  1620
CAGTTATTTT TATTCATATA TTTTAGCATA TTCGAACTAA TTTCTAAGAA ATTTAGTTAT  1680
AACTCTATGT AGTTATAGAA AGTGAATATG CAGTTATTCT ATGAGTCGCA CAATTCTTGA  1740
GTCTCTGATA CCTACCTATT GGGGTTAGGA GAAAAGACTA GACAATTACT ATGTGGTCAT  1800
TCTCTACAAC ATATGTTAGC ACGGCAAAGA ACCTTCAAAT TGAAGACTGA GATTTTTCTG  1860
TATATATGGG TTTTGTAAAG ATGGTTTTAC ACACTACAGA TGTCTATACT GTGAAAAGTG  1920
TTTTCAATTC TGAAAAAAAG CATACATCAT GATTATGGCA AAGAGGAGAG AAAGAAATTT  1980
ATTTTACATT GACATTGCAT TGCTTCCCCT TAGATACCAA TTTAGATAAC AAACACTCAT  2040
GCTTTAATGG ATTATACCCA GAGCACTTTG AACAAAGGTC AGTGGGGATT GTTGAATACA  2100
TTAAAGAAGA GTTTCTAGGG GCTACTGTTT ATGAGACACA TCCAGGAGTT ATGTTTAAGT  2160
AAAAATCCTT GAGAATTTAT TATGTCAGAT GTTTTTTCAT TCATTATCAG GAAGTTTTAG  2220
TTATCTGTCA TTTTTTTTTT TCACATCAGT TTGATCAGGA AAGTGTATAA CACATCTTAG  2280
AGCAAGAGTT AGTTTGGTAT TAAATCCTCA TTAGAACAAC CACCTGTTTC ACTAATAACT  2340
TACCCCTGAT GAGTCTATCT AAACATATGC ATTTTAAGCC TTCAAATTAC ATTATCAACA  2400
TGAGAGAAAT AACCAACAAA GAAGATGTTC AAAATAATAG TCCCATATCT GTAATCATAT  2460
CTACATGCAA TGTTAGTAAT TCTGAAGTTT TTTAAATTTA TGGCTATTTT TACACGATGA  2520
TGAATTTTGA CAGTTTGTGC ATTTTCTTTA TACATTTTAT ATTCTTCTGT TAAAATATCT  2580
CTTCAGATGA AACTGTCCAG ATTAATTAGG AAAAGGCATA TATTAACATA AAAATTGCAA  2640
AAGAAATGTC GCTGTAAATA AGATTTACAA CTGATGTTTC TAGAAAATTT CCACTTCTAT  2700
ATCTAGGCTT TGTCAGTAAT TTCCACACCT TAATTATCAT TCAACTTGCA AAAGAGACAA  2760
CTGATAAGAA GAAAATTGAA ATGAGAATCT GTGGATAAGT GTTTGTGTTC AGAAGATGTT  2820
GTTTTGCCAG TATTAGAAAA TACTGTGAGC CGGGCATGGT GGCTTACATC TGTAATCCCA  2880
GCACTTTGGG AGGCTGAGGG GGTGGATCAC CTGAGGTCGG GAGTTCTAGA CCAGCCTGAC  2940
CAACATGGAG AAACCCCATC TCTACTAAAA ATACAAAATT AGCTGGGCAT GGTGGCACAT  3000
GCTGGTAATC TCAGCTATTG AGGAGGCTGA GGCAGGAGAA TTGCTTGAAC CCGGGAGGCG  3060
GAGGTTGCAG TGAGCCAAGA TTGCACCACT GTACTCCAGC CTGGGTGACA AAGTCAGACT  3120
CCATCTCCAA AAAAAAAAAA AAAA
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Seq ID NO: 395 Protein sequence
Protein Accession #: NP_055146.1

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1          11         21         31         41         51
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MVRKPVVSTI SKGGYLQGNV NGRLPSLGNK EPPGQEKVQL KRKVTLLRGV SIIIGTIIGA    60
GIFISPKGVL QNTGSVGMSL TIWTVCGVLS LFGALSYAEL GTTIKKSGGH YTYILEVFGP   120
LPAFVRVWVE LLIIRPAATA VISLAFGRYI LEPPFFIQCEI PELAIKLITA VGITVVMVLN   180
SMSVSWSARI QIFLTFCKLT AILIIIVPGV MQLIKGQTQN FKDAFSGRDS SITRLPLAFY   240
YGMYAYAGWF YLNFVTEEVE NPEKTIPLAI CISMAITIGV YVLTNVAYFT TINAEELLLS   300
NAVAVTFSER LLGNFSLAVP IFVALSCFGS MNGGVFAVSR LFYVASREGH LPEILSMIHV   360
RKHTPLPAVI VLHPLTMIML FSGDLDSLLN FLSFARWLFI GLAVAGLIYL RYKCPDMHRP   420
FKVPLFIPAL FSFTCLFMVA LSLYSDPFST GIGFVITLTG VPAYYLFIIW DKKPRWFRIM   480
SEKITRTLQI ILEVVPEEDK L
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Seq ID NO: 396 DNA sequence
Nucleic Acid Accession #: NM_006528
Coding sequence: 57..764

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1          11         21         31         41         51
|          |          |          |          |          |
GCCGCCAGCG GCTTTCTCGG ACGCCTTGCC CAGCGGGCCG CCCGACCCCC TGCACCATGG    60
ACCCCGCTCG CCCCCTGGGG CTGTCGATTC TGCTGCTTTT CCTGACGGAG GCTGCACTGG   120
GCGATGCTGC TCAGGAGCCA ACAGGAAATA ACGCGGAGAT CTGTCTCCTG CCCCTAGACT   180
ACGGACCCTG CCGGGCCCTA CTTCTCCGTT ACTACTACGA CAGGTACACG CAGAGCTGCC   240
GCCAGTTCCT GTACGGGGGC TGCGAGGGCA ACGCCAACAA TTTCTACACC TGGGAGGCTT   300
GCGACGATGC TTGCTGGAGG ATAGAAAAAG TTCCCAAAGT TTGCCGGCTG CAAGTGAGTG   360
TGGACGACCA GTGTGAGGGG TCCACAGAAA AGTATTTCTT TAATCTAAGT TCCATGACAT   420
GTGAAAAATT CTTTTCCGGT GGGTGTCACC GGAACCGGAT TGAGAACAGG TTTCCAGATG   480
AAGCTACTTG TATGGGCTTC TGCGCACCAA AGAAAATTCC ATCATTTTGC TACAGTCCAA   540
AAGATGAGGG ACTGTGCTCT GCCAATGTGA CTCGCTATTA TTTTAATCCA AGATACAGAA   600
CCTGTGATGC TTTCACCTAT ACTGGCTGTG GAGGGAATGA CAATAACTTT GTTAGCAGGG   660
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AGGATTGCAA ACGTGCATGT GCAAAAGCTT TGAAAAAGAA AAAGAAGATG CCAAAGCTTC   720
GCTTTGCCAG TAGAATCCGG AAAATTCGGA AGAAGCAATT TTAAACATTC TTAATATGTC   780
ATCTTGTTTG TCTTTATGGC TTATTTGCCT TTATGGTTGT ATCTGAAGAA TAATATGACA   840
GCATGAGGAA ACAAATCATT GGTGATTTAT TCACCAGTTT TTATTAATAC AAGTCACTTT   900
TTCAAAAATT TGGATTTTTT TATATATAAC TAGCTGCTAT TCAAATGTGA GTCTACCATT   960
TTTAATTTAT GGTTCAACTG TTTGTGAGAC GAATTCTTGC AATGCATAAG ATATAAAAGC  1020
AAATATGACT CACTCATTTC TTGGGGTCGT ATTCCTGATT TCAGAAGAGG ATCATAACTG  1080
AAACAACATA AGACAATATA ATCATGTGCT TTTAACATAT TTGAGAATAA AAAGGACTAG  1140
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Seq ID NO: 397 Protein sequence
Protein Accession #: NP_006519

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1           11          21          31          41          51
|           |           |           |           |           |
MDPARPLGLS ILLLFLTEAA LGDAAQEPTG NNAEICLLPL DYGPCRALLL RYYYDRYTQS    60
CRQFLYGGCE GNANNFYTWE ACDDACWRIE KVPKVCRLQV SVDDQCEGST EKYFFNLSSM   120
TCEKFFSGGC HRNRIENRPP DEATCMGFCA PKKIPSFCYS PKDEGLCSAN VTRYYFNPRY   180
RTCDAFTYTG CGGNDNNFVS REDCKRACAK ALKKKKKMPK LRFASRIRKI RKKQF
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Seq ID NO: 398 DNA sequence
Nucleic Acid Accession #: NM_001508.1
Coding sequence: 1..1361

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1           11          21          31          41          51
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ATGGCTTCAC CCAGCCTCCC GGGCAGTGAC TGCTCCCAAA TCATTGATCA CAGTCATGTC    60
CCCGAGTTTG AGGTGGCCAC CTGGATCAAA ATCACCCTTA TTCTGGTGTA CCTGATCATC   120
TTCGTGATGG GCCTTCTGGG GAACAGCGTC ACCATTCGGG TCACCCAGGT GCTGCAGAAG   180
AAAGGATACT TGCAGAAGGA GGTGACAGAC CACATGGTGA GTTTGGCTTG CTCGGACATC   240
TTGGTGTTCC TCATCGGCAT GCCCATGGAG TTCTACAGCA TCATCTGGAA TCCCCTGACC   300
ACGTCCAGCT ACACCCTGTC CTGCAAGCTG CACACTTTCC TCTTCGAGGC CTGCAGCTAC   360
GCTACGCTGC TGCACGTGCT GACGCTCAGC TTTGAGCGCT ACATCGCCAT CTGTCACCCC   420
TTCAGGTACA AGGCTGTGTC GGGACCTTGC CAGGTGAAGC TGCTGATTGG CTTCGTCTGG   480
GTCACCTCCG CCCTGGTGGC ACTGCCCTTG CTGTTTGCCA TGGGTACTGA GTACCCCCTG   540
GTGAACGTGC CCAGCCACCG GGGTCTCACT TGCAACCGCT CCAGCACCCG CCACCACGAG   600
CAGCCCGAGA CCTCCAATAT GTCCATCTGT ACCAACCTCT CCAGCCGCTG GACCGTGTTC   660
CAGTCCAGCA TCTTCGGCGC CTTCGTGGTC TACCTCGTGG TCCTGCTCTC CGTAGCCTTC   720
ATGTGCTGGA ACATGATGCA GGTGCTCATG AAAAGCCAGA AGGGCTCGCT GGCCGGGGGC   780
ACGCGGCCTC CGCAGCTGAG GAAGTCCGAG AGCGAAGAGA GCAGGACCGC CAGGAGGCAG   840
ACCATCATCT TCCTGAGGCT GATTGTTGTG ACATTGGCCG TATGCTGGAT GCCCAACCAG   900
ATTCGGAGGA TCATGGCTGC GGCCAAACCC AAGCACGACT GGACGAGGTC CTACTTCCGG   960
GCGTACATGA TCCTCCTCCC CTTCTCGGAG ACGTTTTTCT ACCTCAGCTC GGTCATCAAC  1020
CCGCTCCTGT ACACGGTGTC CTCGCAGCAG TTTCGGCGGG TGTTCGTGCA GGTGCTGTGC  1080
TGCCGCCTGT CGCTGCAGCA CGCCAACCAC GAGAAGCGCC TGCGCGTACA TGCGCACTCC  1140
ACCACCGACA GCGCCCGCTT TGTGCAGCGC CCGTTGCTCT TCGCGTCCCG GCGCCAGTCC  1200
TCTGCAAGGA GAACTGAGAA GATTTTCTTA AGCACTTTTC AGAGCGAGGC CGAGCCCCAG  1260
TCTAAGTCCC AGTCATTGAG TCTCGAGTCA CTAGAGCCCA ACTCAGGCGC GAAACCAGCC  1320
AATTCTGCTG CAGAGAATGG TTTTCAGGAG CATGAAGTTT GA
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Seq ID NO: 399 Protein sequence
Protein Accession #: NP_001499.1

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1           11          21          31          41          51
|           |           |           |           |           |
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KGYLQKEVTD HMVSLACSDI LVFLIGMPME FYSIIWNPLT TSSYTLSCKL HTFLFEACSY   120
ATLLHVLTLS FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL   180
VNVPSHRGLT CNRSSTRHHE QPETSNMSIC TNLSSRWTVF QSSIFGAFVV YLVVLLSVAF   240
MCWNMMQVLM KSQKGSLAGG TRPPQLRKSE SEESRTARRQ TIIFLRLIVV TLAVCWMPNQ   300
IRRIMAAAKP KHDWTRSYFR AYMILLPFSE TFFYLSSVIN PLLYTVSSQQ FRRVFVQVLC   360
CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARRTEKIFL STFQSEAEPQ   420
SKSQSLSLES LEPNSGAKPA NSAAENGFQE HEV
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Seq ID NO: 400 DNA sequence
Nucleic Acid Accession #: NM_006475.1
Coding sequence: 28..2538

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1           11          21          31          41          51
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AACAGAACTG CAACGGAGAG ACTCAAGATG ATTCCCTTTT TACCCATGTT TTCTCTACTA    60
TTGCTGCTTA TTGTTAACCC TATAAACGCC AACAATCATT ATGACAAGAT CTTGGCTCAT   120
AGTCGTATCA GGGGTCGGGA CCAAGGCCCA AATGTCTGTG CCCTTCAACA GATTTTGGGC   180
ACCAAAAAGA AATACTTCAG CACTTGTAAG AACTGGTATA AAAAGTCCAT CTGTGGACAG   240
AAAACGACTG TTTTATATGA ATGTTGCCCT GGTTATATGA GAATGGAAGG AATGAAAGGC   300
TGCCCAGCAG TTTTGCCCAT TGACCATGTT TATGGCACTC TGGGCATCGT GGGAGCCACC   360
ACAACGCAGC GCTATTCTGA CGCCTCAAAA CTGAGGGAGG AGATCGAGGG AAAGGGATCC   420
TTCACTTACT TTGCACCGAG TAATGAGGCT TGGGACAACT TGGATTCTGA TATCCGTAGA   480
GGTTTGGAGA GCAACGTGAA TGTTGAATTA CTGAATGCTT TACATAGTCA CATGATTAAT   540
AAGAGAATGT TGACCAAGGA CTTAAAAAAT GGCATGATTA TTCCTTCAAT GTATAACAAT   600
TTGGGGCTTT TCATTAACCA TTATCCTAAT GGGGTTGTCA CTGTTAATTG TGCTCGAATC   660
ATCCATGGGA ACCAGATTGC AACAAATGGT GTTGTCCATG TCATTGACCG TGTGCTTACA   720
CAAATTGGTA CCTCAATTCA AGACTTCATT GAAGCAGAAG ATGACCTTTC ATCTTTTAGA   780
GCAGCTGCCA TCACATCGGA CATATTGGAG GCCCTTGGAA GAGACGGTCA CTTCACACTC   840
TTTGCTCCCA CCAATGAGGC TTTTGAGAAA CTTCCACGAG GTGTCCTAGA AAGGTTCATG   900
GGAGACAAAG TGGCTTCCGA AGCTCTTATG AAGTACCACA TCTTAAATAC TCTCCAGTGT   960
TCTGAGTCTA TTATGGGAGG AGCAGTCTTT GAGACGCTGG AAGGAAATAC AATTGAGATA  1020
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GGATGTGACG GTGACAGTAT AACAGTAAAT GGAATCAAAA TGGTGAACAA AAAGGATATT  1080
GTGACAAATA ATGGTGTGAT CCATTTGATT GATCAGGTCC TAATTCCTGA TTCTGCCAAA  1140
CAAGTTATTG AGCTGGCTGG AAAACAGCAA ACCACCTTCA CGGATCTTGT GGCCCAATTA  1200
GGCTTGGCAT CTGCTCTGAG GCCAGATGGA GAATACACTT TGCTGGCACC TGTGAATAAT  1260
GCATTTTCTG ATGATACTCT CAGCATGGTT CAGCGCCTCC TTAAATTAAT TCTGCAGAAT  1320
CACATATTGA AAGTAAAAGT TGGCCTTAAT GAGCTTTACA ACGGGCAAAT ACTGGAAACC  1380
ATCGGAGGCA AACAGCTCAG AGTCTTCGTA TATCGTACAG CTGTCTGCAT TGAAAATTCA  1440
TGCATGGAGA AAGGGAGTAA GCAAGGGAGA AACGGTGCGA TTCACATATT CCGCGAGATC  1500
ATCAAGCCAG CAGAGAAATC CCTCCATGAA AAGTTAAAAC AAGATAAGCG CTTTAGCACC  1560
TTCCTCAGCC TACTTGAAGC TGCAGACTTG AAAGAGCTCC TGACACAACC TGGAGACTGG  1620
ACATTATTTG TGCCAACCAA TGATGCTTTT AAGGGAATGA CTAGTGAAGA AAAAGAAATT  1680
CTGATACGGG ACAAAAATGC TCTTCAAAAC ATCATTCTTT ATCACCTGAC ACCAGGAGTT  1740
TTCATTGGAA AAGGATTTGA ACCTGGTGTT ACTAACATTT TAAAGACCAC ACAAGGAAGC  1800
AAAATCTTTC TGAAAGAAGT AAATGATACA CTTCTGGTGA ATGAATTGAA ATCAAAAGAA  1860
TCTGACATCA TGACAACAAA TGGTGTAATT CATGTTGTAG ATAAACTCCT CTATCCAGCA  1920
GACACACCTG TTGGAAATGA TCAACTGCTG GAAATACTTA ATAAATTAAT CAAATACATC  1980
CAAATTAAGT TTGTTCGTGG TAGCACCTTC AAAGAAATCC CCGTGACTGT CTATACAACT  2040
AAAATTATAA CCAAAGTTGT GGAACCAAAA ATTAAAGTGA TTGAAGGCAG TCTTCAGCCT  2100
ATTATCAAAA CTGAAGGACC CACACTAACA AAAGTCAAAA TTGAAGGTGA ACCTGAATTC  2160
AGACTGATTA AAGAAGGTGA AACAATAACT GAAGTGATCC ATGGAGAGCC AATTATTAAA  2220
AAATACACCA AAATCATTGA TGGAGTGCCT GTGGAAATAA CTGAAAAAGA GACACGAGAA  2280
GAACGAATCA TTACAGGTCC TGAAATAAAA TACACTAGGA TTTCTACTGG AGGTGGAGAA  2340
ACAGAAGAAA CTCTGAAGAA ATTGTTACAA GAAGAGGTCA CCAAGGTCAC CAAATTCATT  2400
GAAGGTGGTG ATGGTCATTT ATTTGAAGAT GAAGAAATTA AAAGACTGCT TCAGGGAGAC  2460
ACACCCGTGA GGAAGTTGCA AGCCAACAAA AAAGTTCAAG GTTCTAGAAG ACGATTAAGG  2520
GAAGGTCGTT CTCAGTGAAA ATCCAAAAAC CAGAAAAAAA TGTTTATACA ACCCTAAGTC  2580
AATAACCTGA CCTTAGAAAA TTGTGAGAGC CAAGTTGACT TCAGGAACTG AAACATCAGC  2640
ACAAAGAAGC AATCATCAAA TAATTCTGAA CACAAATTTA ATATTTTTTT TTCTGAATGA  2700
GAAACATGAG GGAAATTGTG GAGTTAGCCT CCTGTGGTAA AGGAATTGAA GAAAATATAA  2760
CACCTTACAC CCTTTTTCAT CTTGACATTA AAAGTTCTGG CTAACTTTGG AATCCATTAG  2820
AGAAAAATCC TTGTCACCAG ATTCATTACA ATTCAAATCG AAGAGTTGTG AACTGTTATC  2880
CCATTGAAAA GACCGAGCCT TGTATGTATG TTATGGATAC ATAAAATGCA CGCAAGCCAT  2940
TATCTCTCCA TGGGAAGCTA AGTTATAAAA ATAGGTGCTT GGTGTACAAA ACTTTTTATA  3000
TCAAAAGGCT TTGCACATTT CTATATGAGT GGGTTTACTG GTAAATTATG TTATTTTTTA  3060
CAACTAATTT TGTACTCTCA GAATGTTTGT CATATGCTTC TTGCAATGCA TATTTTTTAA  3120
TCTCAAACGT TTCAATAAAA CCATTTTTCA GATATAAAGA GAATTACTTC AAATTGAGTA  3180
ATTCAGAAAA ACTCAAGATT TAAGTTAAAA AGTGGTTTGG ACTTGGGAA
```

Seq ID NO: 401 Protein sequence
Protein Accession #: NP_006466.1

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1          11         21         31         41         51
|          |          |          |          |          |
MIPFLPMFSL LLLLIVNPIN ANNHYDKILA HSRIRGRDQG PNVCALQQIL GTKKKYFSTC    60
KNWYKKSICG QKTTVLYECC PGYMRMEGMK GCPAVLPIDH VYGTLGIVGA TTTQRYSDAS   120
KLREEIEGKG SFTYFAPSNE AWDNLDSDIR RGLESNVNVE LLNALHSHMI NKRMLTKDLK   180
NGMIIPSMYN NLGLFINHYP NGVVTVNCAR IIHGNQIATN GVVHVIDRVL TQIGTSIQDF   240
IEAEDDLSSF RAAAITSDIL EALGRDGHFT LFAPTNEAFE KLPRGVLERF MGDKVASEAL   300
MKYHILNTLQ CSESIMGGAV FETLEGNTIE IGCDGDSITV NGIKMVNKKD IVTNNGVIHL   360
IDQVLIPDSA KQVIELAGKQ QTTFTDLVAQ LGLASALRPD GEYTLLAPVN NAFSDDTLSM   420
VQRLLKLILQ NHILKVKVGL NELYNGQILE TIGGKQLRVF VYRTAVCIEN SCMEKGSKQG   480
RNGAIHIFRE IIKPAEKSLH EKLKQDKRFS TFLSLLEAAD LKELLTQPGD WTLFVPTNDA   540
FKGMTSEEKE ILIRDKNALQ NIILYHLTPG VFIGKGFEPG VTNILKTTQG SKIFLKEVND   600
TLLVNELKSK ESDIMTTNGV IHVVDKLLYP ADTPVGNDQL LEILNKLIKY IQIKFVRGST   660
FKEIPVTVYT TKIITKVVEP KIKVIEGSLQ PIIKTEGPTL TKVKIEGEPE FRLIKEGETI   720
TEVIHGEPII KKYTKIIDGV PVEITEKETR EERIITGPEI KYTRISTGGG ETEETLKKLL   780
QEEVTKVTKF IEGGDGHLFE DEEIKRLLQG DTPVRKLQAN KKVQGSRRRL REGRSQ
```

Seq ID NO: 402 DNA sequence
Nucleic Acid Accession #: NM_002416
Coding sequence: 40..417

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1          11         21         31         41         51
|          |          |          |          |          |
ATCCAATACA GGAGTGACTT GGAACTCCAT TCTATCACTA TGAAGAAAAG TGGTGTTCTT    60
TTCCTCTTGG GCATCATCTT GCTGGTTCTG ATTGGAGTGC AAGGAACCCC AGTAGTGAGA   120
AAGGGTCGCT GTTCCTGCAT CAGCACCAAC CAAGGGACTA TCCACCTACA ATCCTTGAAA   180
GACCTTAAAC AATTTGCCCC AAGCCCTTCC TGCGAGAAAA TTGAAATCAT TGCTACACTG   240
AAGAATGGAG TTCAAACATG TCTAAACCCA GATTCAGCAG ATGTGAAGGA ACTGATTAAA   300
AAGTGGGAGA AACAGGTCAG CCAAAAGAAA AAGCAAAAGA ATGGGAAAAA ACATCAAAAA   360
AAGAAAGTTC TGAAAGTTCG AAAATCTCAA CGTTCTCGTC AAAAGAAGAC TACATAAGAG   420
ACCACTTCAC CAATAAGTAT TCTGTGTTAA AAATGTTCTA TTTTAATTAT ACCGCTATCA   480
TTCCAAAGGA GGATGGCATA TAATACAAAG GCTTATTAAT TTGACTAGAA AATTTAAAAC   540
ATTACTCTGA AATTGTAACT AAAGTTAGAA AGTTGATTTT AAGAATCCAA ACGTTAAGAA   600
TTGTTAAAGG CTATGATTGT CTTTGTTCTT CTACCACCCA CCAGTTGAAT TTCATCATGC   660
TTAAGGCCAT GATTTTAGCA ATACCCATGT CTACACAGAT GTTCACCCAA CCACATCCCA   720
CTCACAACAG CTGCCTGGAA GAGCAGCCCT AGGCTTCCAC GTACTGCAGC CTCCAGAGAG   780
TATCTGAGGC ACATGTCAGC AAGTCCTAAG CCTGTTAGCA TGCTGGTGAG CCAAGCAGTT   840
TGAAATTGAG CTGGACCTCA CCAAGCTGCT GTGGCCATCA ACCTCTGTAT TTGAATCAGC   900
CTACAGGCCT CACACACAAT GTGTCTGAGA GATTCATGCT GATTGTTATT GGGTATCACC   960
ACTGGAGATC ACCAGTGTGT GGCTTTCAGA GCCTCCTTTC TGGCTTTGGA AGCCATGTGA  1020
TTCCATCTTG CCCGCTCAGG CTGACCACTT TATTTCTTTT TGTTCCCCTT TGCTTCATTC  1080
AAGTCAGCTC TTCTCCATCC TACCACAATG CAGTGCCTTT CTTCTCTCCA GTGCACCTGT  1140
CATATGCTCT GATTTATCTG AGTCAACTCC TTTCTCATCT TGTCCCCAAC ACCCCACAGA  1200
AGTGCTTTCT TCTCCCAATT CATCCTCACT CAGTCCAGCT TAGTTCAAGT CCTGCCTCTT  1260
AAATAAACCT TTTTGGACAC ACAAATTATC TTAAAACTCC TGTTTCACTT GGTTCAGTAC  1320
CACATGGGTG AACACTCAAT GGTTAACTAA TTCTTGGGTG TTTATCCTAT CTCTCCAACC  1380
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AGATTGTCAG CTCCTTGAGG GCAAGAGCCA CAGTATATTT CCCTGTTTCT TCCACAGTGC  1440
CTAATAATAC TGTGGAACTA GGTTTTAATA ATTTTTTAAT TGATGTTGTT ATGGGCAGGA  1500
TGGCAACCAG ACCATTGTCT CAGAGCAGGT GCTGGCTCTT TCCTGGCTAC TCCATGTTGG  1560
CTAGCCTCTG GTAACCTCTT ACTTATTATC TTCAGGACAC TCACTACAGG GACCAGGGAT  1620
GATGCAACAT CCTTGTCTTT TTATGACAGG ATGTTTGCTC AGCTTCTCCA ACAATAAGAA  1680
GCACGTGGTA AAACACTTGC GGATATTCTG GACTGTTTTT AAAAAATATA CAGTTTACCG  1740
AAAATCATAT AATCTTACAA TGAAAAGGAC TTTATAGATC AGCCAGTGAC CAACCTTTTC  1800
CCAACCATAC AAAAATTCCT TTTCCCGAAG GAAAAGGGCT TTCTCAATAA GCCTCAGCTT  1860
TCTAAGATCT AACAAGATAG CCACCGAGAT CCTTATCGAA ACTCATTTTA GGCAAATATG  1920
AGTTTTATTG TCCGTTTACT TGTTTCAGAG TTTGTATTGT GATTATCAAT TACCACACCA  1980
TCTCCCATGA AGAAAGGGAA CGGTGAAGTA CTAAGCGCTA GAGGAAGCAG CCAAGTCGGT  2040
TAGTGGAAGC ATGATTGGTG CCCAGTTAGC CTCTGCAGGA TGTGGAAACC TCCTTCCAGG  2100
GGAGGTTCAG TGAATTGTGT AGGAGAGGTT GTCTGTGGCC AGAATTTAAA CCTATACTCA  2160
CTTTCCCAAA TTGAATCACT GCTCACACTG CTGATGATTT AGAGTGCTGT CCGGTGGAGA  2220
TCCCACCCGA ACGTCTTATC TAATCATGAA ACTCCCTAGT TCCTTCATGT AACTTCCCTG  2280
AAAAATCTAA GTGTTTCATA AATTTGAGAG TCTGTGACCC ACTTACCTTG CATCTCACAG  2340
GTAGACAGTA TATAACTAAC AACCAAAGAC TACATATTGT CACTGACACA CACGTTATAA  2400
TCATTTATCA TATATATACA TACATGCATA CACTCTCAAA GCAAATAATT TTTCACTTCA  2460
AAACAGTATT GACTTGTATA CCTTGTAATT TGAAATATTT TCTTTGTTAA AATAGAATGG  2520
TATCAATAAA TAGACCATTA ATCAG
```

Seq ID NO: 403 Protein sequence
Protein Accession #: NP_002407

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1          11         21         31         41         51
|          |          |          |          |          |
MKKSGVLFLL GIILLVLIGV QGTPVVRKGR CSCISTNQGT IHLQSLKDLK QFAPSPSCEK    60
IEIIATLKNG VQTCLNPDSA DVKELIKKWE KQVSQKKKQK NGKKHQKKKV LKVRKSQRSR   120
QKKTT
```

Seq ID NO: 404 DNA sequence
Nucleic Acid Accession #: NM_006670
Coding sequence: 85..1347

```
1          11         21         31         41         51
|          |          |          |          |          |
CCGGCTCGCG CCCTCCGGGC CCAGCCTCCC GAGCCTTCGG AGCGGGCGCC GTCCCAGCCC    60
AGCTCCGGGG AAACGCGAGC CGCGATGCCT GGGGGGTGCT CCCGGGGCCC CGCCGCCGGG   120
GACGGGCGTC TGCGGCTGGC GCGACTAGCG CTGGTACTCC TGGGCTGGGT CTCCTCGTCT   180
TCTCCCACCT CCTCGGCATC CTCCTTCTCC TCCTCGGCGC CGTTCCTGGC TTCCGCCGTG   240
TCCGCCCAGC CCCCGCTGCC GGACCAGTGC CCCGCGCTGT GCGAGTGCTC CGAGGCAGCG   300
CGCACAGTCA AGTGCGTTAA CCGCAATCTG ACCGAGGTGC CCACGGACCT GCCCGCCTAC   360
GTGCGCAACC TCTTCCTTAC CGGCAACCAG CTGGCCGTGC TCCCTGCCGG CGCCTTCGCC   420
CGCCGGCCGC CGCTGGCGGA GCTGGCCGCG CTCAACCTCA GCGGCAGCCG CCTGGACGAG   480
GTGCGCGCGG GCGCCTTCGA GCATCTGCCC AGCCTGCGCC AGCTCGACCT CAGCCACAAC   540
CCACTGGCCG ACCTCAGTCC CTTCGCTTTC TCGGGCAGCA ATGCCAGCGT CTCGGCCCCC   600
AGTCCCCTTG TGGAACTGAT CCTGAACCAC ATCGTGCCCC CTGAAGATGA GCGGCAGAAC   660
CGGAGCTTCG AGGGCATGGT GGTGGCGGCC CTGCTGGCGG GCCGTGCACT GCAGGGGCTC   720
CGCCGCTTGG AGCTGGCCAG CAACCACTTC CTTTACCTGC CGCGGGATGT GCTGGCCCAA   780
CTGCCCAGCC TCAGGCACCT GGACTTAAGT AATAATTCGC TGGTGAGCCT GACCTACGTG   840
TCCTTCCGCA ACCTGACACA TCTAGAAAGC CTCCACCTGG AGGACAATGC CCTCAAGGTC   900
CTTCACAATG GCACCCTGGC TGAGTTGCAA GGTCTACCCC ACATTAGGGT TTTCCTGGAC   960
AACAATCCCT GGGTCTGCGA CTGCCACATG GCAGACATGG TGACCTGGCT CAAGGAAACA  1020
GAGGTAGTGC AGGGCAAAGA CCGGCTCACC TGTGCATATC CGGAAAAAAT GAGGAATCGG  1080
GTCCTCTTGG AACTCAACAG TGCTGACCTG GACTGTGACC CGATTCTTCC CCCATCCCTG  1140
CAAACCTCTT ATGTCTTCCT GGGTATTGTT TTAGCCCTGA TAGGCGCTAT TTTCCTCCTG  1200
GTTTTGTATT TGAACCGCAA GGGGATAAAA AAGTGGATGC ATAACATCAG AGATGCCTGC  1260
AGGGATCACA TGGAAGGGTA TCATTACAGA TATGAAATCA ATGCGGACCC CAGATTAACA  1320
AACCTCAGTT CTAACTCGGA TGTCTGAGAA ATATTAGAGG ACAGACCAAG GACAACTCTG  1380
CATGAGATGT AGACTTAAGC TTTATCCCTA CTAGGCTTGC TCCACTTTCA TCCTCCACTA  1440
TAGATACAAC GGACTTTGAC TAAAAGCAGT GAAGGGGATT TGCTTCCTTG TTATGTAAAG  1500
TTTCTCGGTG TGTTCTGTTA ATGTAAGACG ATGAACAGTT GTGTATAGTG TTTTACCCTC  1560
TTCTTTTTCT TGGAACTCCT CAACACGTAT GGAGGGATTT TTCAGGTTTC AGCATGAACA  1620
TGGGCTTCTT GCTGTCTGTC TCTCTCTCAG TACAGTTCAA GGTGTAGCAA GTGTACCCAC  1680
ACAGATAGCA TTCAACAAAA GCTGCCTCAA CTTTTTCGAG AAAAATACTT TATTCATAAA  1740
TATCAGTTTT ATTCTCATGT ACCTAAGTTG TGGAGAAAAT AATTGCATCC TATAAACTGC  1800
CTGCAGACGT TAGCAGGCTC TTCAAAATAA CTCCATGGTG CACAGGAGCA CCTGCATCCA  1860
AGAGCATGCT TACATTTTAC TGTTCTGCAT ATTACAAAAA ATAACTTGCA ACTTCATAAC  1920
TTCTTTGACA AAGTAAATTA CTTTTTTGAT TGCAGTTTAT ATGAAAATGT ACTGATTTTT  1980
TTTTAATAAA CTGCATCGAG ATCCAACCGA CTGAATTGTT AAAAAAAAAA AAAAATAAAG  2040
ATTCTTAAAA GAA
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Seq ID NO: 405 Protein sequence
Protein Accession #: NP_006661

```
1          11         21         31         41         51
|          |          |          |          |          |
MPGGCSRGPA AGDGRLRLAR LALVLLGWVS SSSPTSSASS FSSSAPFLAS AVSAQPPLPD    60
QCPALCECSE AARTVKCVNR NLTEVPTDLP AYVRNLFLTG NQLAVLPAGA FARRPPLAEL   120
AALNLSGSRL DEVRAGAFEH LPSLRQLDLS HNPLADLSPF AFSGSNASVS APSPLVELIL   180
NHIVPPEDER QNRSFEGMVV AALLAGRALQ GLRRLELASN HFLYLPRDVL AQLPSLRHLD   240
LSNNSLVSLT YVSFRNLTHL ESLHLEDNAL KVLHNGTLAE LQGLPHIRVF LDNNPWVCDC   300
HMADMVTWLK ETEVVQGKDR LTCAYPEKMR NRVLLELNSA DLDCDPILPP SLQTSYVFLG   360
IVLALIGAIF LLVLYLNRKG IKKWMHNIRD ACRDHMEGYH YRYEINADPR LTNLSSNSDV
```

Seq ID NO: 406 DNA sequence
Nucleic Acid Accession #: Eos sequence

Coding sequence: 1..927

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGCCTGGGG GGTGCTCCCG GGGCCCCGCC GCCGGGGACG GGCGTCTGCG GCTGGCGCGA    60
CTAGCGCTGG TACTCCTGGG CTGGGTCTCC TCGTCTTCTC CCACCTCCTC GGCATCCTCC   120
TTCTCCTCCT CGGCGCCGTT CCTGGCTTCC GCCGTGTCCG CCCAGCCCCC GCTGCCGGAC   180
CAGTGCCCCG CGCTGTGCGA GTGCTCCGAG GCAGCGCGCA CAGTCAAGTG CGTTAACCGC   240
AATCTGACCG AGGTGCCCAC GGACCTGCCC GCCTACGTGC GCAACCTCTT CCTTACCGGC   300
AACCAGCTGG CCAGCAACCA CTTCCTTTAC CTGCCGCGGG ATGTGCTGGC CCAACTGCCC   360
AGCCTCAGGC ACCTGGACTT AAGTAATAAT TCGCTGGTGA GCCTGACCTA CGTGTCCTTC   420
CGCAACCTGA CACATCTAGA AAGCCTCCAC CTGGAGGACA ATGCCCTCAA GGTCCTTCAC   480
AATGGCACCC TGGCTGAGTT GCAAGGTCTA CCCCACATTA GGGTTTTCCT GGACAACAAT   540
CCCTGGGTCT GCGACTGCCA CATGGCAGAC ATGGTGACCT GGCTCAAGGA AACAGAGGTA   600
GTGCAGGGCA AAGACCGGCT CACCTGTGCA TATCCGGAAA AAATGAGGAA TCGGGTCCTC   660
TTGGAACTCA ACAGTGCTGA CCTGGACTGT GACCCGATTC TTCCCCCATC CCTGCAAACC   720
TCTTATGTCT TCCTGGGTAT TGTTTTAGCC CTGATAGGCG CTATTTTCCT CCTGGTTTTG   780
TATTTGAACC GCAAGGGGAT AAAAAAGTGG ATGCATAACA TCAGAGATGC CTGCAGGGAT   840
CACATGGAAG GGTATCATTA CAGATATGAA ATCAATGCGG ACCCCAGATT AACAAACCTC   900
AGTTCTAACT CGGATGTCCT CGAGTGA
```

Seq ID NO: 407 Protein sequence
Protein Accession #: Eos sequence

```
1          11         21         31         41         51
|          |          |          |          |          |
MPGGCSRGPA AGDGRLRLAR LALVLLGWVS SSSPTSSASS FSSSAPFLAS AVSAQPPLPD    60
QCPALCECSE AARTVKCVNR NLTEVPTDLP AYVRNLFLTG NQLASNHFLY LPRDVLAQLP   120
SLRHLDLSNN SLVSLTYVSF RNLTHLESLH LEDNALKVLH NGTLAELQGL PHIRVFLDNN   180
PWVCDCHMAD MVTWLKETEV VQGKDRLTCA YPEKMRNRVL LELNSADLDC DPILPPSLQT   240
SYVFLGIVLA LIGAIFLLVL YLNRKGIKKW MHNIRDACRD HMEGYHYRYE INADPRLTNL   300
SSNSDVLE
```

Seq ID NO: 408 DNA sequence
Nucleic Acid Accession #: NM_000095.1
Coding sequence: 26..2299

```
1          11         21         31         41         51
|          |          |          |          |          |
CAGCACCCAG CTCCCCGCCA CCGCCATGGT CCCCGACACC GCCTGCGTTC TTCTGCTCAC    60
CCTGGCTGCC CTCGGCGCGT CCGGACAGGG CCAGAGCCCG TTGGGCTCAG ACCTGGGCCC   120
GCAGATGCTT CGGGAACTGC AGGAAACCAA CGCGGCGCTG CAGGACGTGC GGGACTGGCT   180
GCGGCAGCAG GTCAGGGAGA TCACGTTCCT GAAAAACACG GTGATGGAGT GTGACGCGTG   240
CGGGATGCAG CAGTCAGTAC GCACCGGCCT ACCCAGCGTG CGGCCCCTGC TCCACTGCGC   300
GCCCGGCTTC TGCTTCCCCG GCGTGGCCTG CATCCAGACG GAGAGCGGCG GCCGCTGCGG   360
CCCCTGCCCC GCGGGCTTCA CGGGCAACGG CTCGCACTGC ACCGACGTCA ACGAGTGCAA   420
CGCCCACCCC TGCTTCCCCC GAGTCCGCTG TATCAACACC AGCCCGGGGT TCCGCTGCGA   480
GGCTTGCCCG CCGGGGTACA GCGGCCCCAC CCACCAGGGC GTGGGGCTGG CTTTCGCCAA   540
GGCCAACAAG CAGGTTTGCA CGGACATCAA CGAGTGTGAG ACCGGGCAAC ATAACTGCGT   600
CCCCAACTCC GTGTGCATCA ACACCCGGGG CTCCTTCCAG TGCGGCCCGT GCCAGCCCGG   660
CTTCGTGGGC GACCAGGCGT CCGGCTGCCA GCGCGGCGCA CAGCGCTTCT GCCCCGACGG   720
CTCGCCCAGC GAGTGCCACG AGCATGCAGA CTGCGTCCTA GAGCGCGATG GCTCGCGGTC   780
GTGCGTGTGT CGCGTTGGCT GGGCCGGCAA CGGGATCCTC TGTGGTCGCG ACACTGACCT   840
AGACGGCTTC CCGGACGAGA AGCTGCGCTG CCCGGAGCCG CAGTGCCGTA AGGACAACTG   900
CGTGACTGTG CCCAACTCAG GGCAGGAGGA TGTGGACCGC GATGGCATCG GAGACGCCTG   960
CGATCCGGAT GCCGACGGGG ACGGGGTCCC CAATGAAAAG GACAACTGCC CGCTGGTGCG  1020
GAACCCAGAC CAGCGCAACA CGGACGAGGA CAAGTGGGGC GATGCGTGCG ACAACTGCCG  1080
GTCCCAGAAG AACGACGACC AAAAGGACAC AGACCAGGAC GGCCGGGGCG ATGCGTGCGA  1140
CGACGACATC GACGGCGACC GGATCCGCAA CCAGGCCGAC AACTGCCCTA GGGTACCCAA  1200
CTCAGACCAG AAGGACAGTG ATGGCGATGG TATAGGGGAT GCCTGTGACA ACTGTCCCCA  1260
GAAGAGCAAC CCGGATCAGG CGGATGTGGA CCACGACTTT GTGGGAGATG CTTGTGACAG  1320
CGATCAAGAC CAGGATGGAG ACGGACATCA GGACTCTCGG GACAACTGTC CCACGGTGCC  1380
TAACAGTGCC CAGGAGGACT CAGACCACGA TGGCCAGGGT GATGCCTGCG ACGACGACGA  1440
CGACAATGAC GGAGTCCCTG ACAGTCGGGA CAACTGCCGC CTGGTGCCTA ACCCCGGCCA  1500
GGAGGACGCG GACAGGGACG GCGTGGGCGA CGTGTGCCAG GACGACTTTG ATGCAGACAA  1560
GGTGGTAGAC AAGATCGACG TGTGTCCGGA GAACGCTGAA GTCACGCTCA CCGACTTCAG  1620
GGCCTTCCAG ACAGTCGTGC TGGACCCGGA GGGTGACGCG CAGATTGACC CCAACTGGGT  1680
GGTGCTCAAC CAGGGAAGGG AGATCGTGCA GACAATGAAC AGCGACCCAG GCCTGGCTGT  1740
GGGTTACACT GCCTTCAATG GCGTGGACTT CGAGGGCACG TTCCATGTGA ACACGGTCAC  1800
GGATGACGAC TATGCGGGCT TCATCTTTGG CTACCAGGAC AGCTCCAGCT TCTACGTGGT  1860
CATGTGGAAG CAGATGGAGC AAACGTATTG GCAGGCGAAC CCCTTCCGTG CTGTGGCCGA  1920
GCCTGGCATC CAACTCAAGG CTGTGAAGTC TTCCACAGGC CCCGGGGAAC AGCTGCGGAA  1980
CGCTCTGTGG CATACAGGAG ACACAGAGTC CCAGGTGCGG CTGCTGTGGA AGGACCCGCG  2040
AAACGTGGGT TGGAAGGACA AGAAGTCCTA TCGTTGGTTC CTGCAGCACC GGCCCCAAGT  2100
GGGCTACATC AGGGTGCGAT TCTATGAGGG CCCTGAGCTG GTGGCCGACA GCAACGTGGT  2160
CTTGGACACA ACCATGCGGG GTGGCCGCCT GGGGGTCTTC TGCTTCTCCC AGGAGAACAT  2220
CATCTGGGCC AACCTGCGTT ACCGCTGCAA TGACACCATC CCAGAGGACT ATGAGACCCA  2280
TCAGCTGCGG CAAGCCTAGG GACCAGGGTG AGGACCCGCC GGATGACAGC CACCCTCACC  2340
GCGGCTGGAT GGGGGCTCTG CACCCAGCCC AAGGGGTGGC CGTCCTGAGG GGGAAGTGAG  2400
AAGGGCTCAG AGAGGACAAA ATAAAGTGTG TGTGCAGGG
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Seq ID NO: 409 Protein sequence
Protein Accession #: NP_000086.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MVPDTACVLL LTLAALGASG QGQSPLGSDL GPQMLRELQE TNAALQDVRD WLRQQVREIT    60
```

```
FLKNTVMECD ACGMQQSVRT GLPSVRPLLH CAPGFCFPGV ACIQTESGGR CGPCPAGFTG   120
NGSHCTDVNE CNAHPCFPRV RCINTSPGFR CEACPPGYSG PTHQGVGLAF AKANKQVCTD   180
INECETGQHN CVPNSVCINT RGSFQCGPCQ PGFVGDQASG CQRGAQRFCP DGSPSECHEH   240
ADCVLERDGS RSCVCRVGWA GNGILCGRDT DLDGFPDEKL RCPEPQCRKD NCVTVPNSGQ   300
EDVDRDGIGD ACDPDADGDG VPNEKDNCPL VRNPDQRNTD EDKWGDACDN CRSQKNDDQK   360
DTDQDGRGDA CDDDIDGDRI RNQADNCPRV PNSDQKDSDG DGIGDACDNC PQKSNPDQAD   420
VDHDFVGDAC DSDQDQDGDG HQDSRDNCPT VPNSAQEDSD HDGQGDACDD DDDNDGVPDS   480
RDNCRLVPNP GQEDADRDGV GDVCQDDFDA DKVVDKIDVC PENAEVTLTD FRAFQTVVLD   540
PEGDAQIDPN WVVLNQGREI VQTMNSDPGL AVGYTAFNGV DFEGTFHVNT VTDDDYAGFI   600
FGYQDSSSFY VVMWKQMEQT YWQANPFRAV AEPGIQLKAV KSSTGPGEQL RNALWHTGDT   660
ESQVRLLWKD PRNVGWKDKK SYRWFLQHRP QVGYIRVRFY EGPELVADSN VVLDTTMRGG   720
RLGVFCFSQE NIIWANLRYR CNDTIPEDYE THQLRQA
```

Seq ID NO: 410 DNA sequence
Nucleic Acid Accession #: NM_001565.1
Coding sequence: 67..363

```
1          11         21         31         41         51
|          |          |          |          |          |
GAGACATTCC TCAATTGCTT AGACATATTC TGAGCCTACA GCAGAGGAAC CTCCAGTCTC    60
AGCACCATGA ATCAAACTGC GATTCTGATT TGCTGCCTTA TCTTTCTGAC TCTAAGTGGC   120
ATTCAAGGAG TACCTCTCTC TAGAACCGTA CGCTGTACCT GCATCAGCAT TAGTAATCAA   180
CCTGTTAATC CAAGGTCTTT AGAAAAACTT GAAATTATTC CTGCAAGCCA ATTTTGTCCA   240
CGTGTTGAGA TCATTGCTAC AATGAAAAAG AAGGGTGAGA AGAGATGTCT GAATCCAGAA   300
TCGAAGGCCA TCAAGAATTT ACTGAAAGCA GTTAGCAAGG AAATGTCTAA AAGATCTCCT   360
TAAAACCAGA GGGGAGCAAA ATCGATGCAG TGCTTCCAAG GATGGACCAC ACAGAGGCTG   420
CCTCTCCCAT CACTTCCCTA CATGGAGTAT ATGTCAAGCC ATAATTGTTC TTAGTTTGCA   480
GTTACACTAA AAGGTGACCA ATGATGGTCA CCAAATCAGC TGCTACTACT CCTGTAGGAA   540
GGTTAATGTT CATCATCCTA AGCTATTCAG TAATAACTCT ACCCTGGCAC TATAATGTAA   600
GCTCTACTGA GGTGCTATGT TCTTAGTGGA TGTTCTGACC CTGCTTCAAA TATTTCCCTC   660
ACCTTTCCCA TCTTCCAAGG GTACTAAGGA ATCTTTCTGC TTTGGGGTTT ATCAGAATTC   720
TCAGAATCTC AAATAACTAA AAGGTATGCA ATCAAATCTG CTTTTTAAAG AATGCTCTTT   780
ACTTCATGGA CTTCCACTGC CATCCTCCCA AGGGGCCCAA ATTCTTTCAG TGGCTACCTA   840
CATACAATTC CAAACACATA CAGGAAGGTA GAAATATCTG AAAATGTATG TGTAAGTATT   900
CTTATTTAAT GAAAGACTGT ACAAAGTATA AGTCTTAGAT GTATATATTT CCTATATTGT   960
TTTCAGTGTA CATGGAATAA CATGTAATTA AGTACTATGT ATCAATGAGT AACAGGAAAA  1020
TTTTAAAAAT ACAGATAGAT ATATGCTCTG CATGTTACAT AAGATAAATG TGCTGAATGG  1080
TTTTCAAATA AAAATGAGGT ACTCTCCTGG AAATATTAAG
```

Seq ID NO: 411 Protein sequence
Protein Accession #: NP_001556.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MNQTAILICC LIFLTLSGIQ GVPLSRTVRC TCISISNQPV NPRSLEKLEI IPASQFCPRV    60
EIIATMKKKG EKRCLNPESK AIKNLLKAVS KEMSKRSP
```

Seq ID NO: 412 DNA sequence
Nucleic Acid Accession #: XM_057014
Coding sequence: 143..874

```
1          11         21         31         41         51
|          |          |          |          |          |
GGGAGGGAGA GAGGCGCGCG GGTGAAAGGC GCATTGATGC AGCCTGCGGC GGCCTCGGAG    60
CGCGGCGGAG CCAGACGCTG ACCACGTTCC TCTCCTCGGT CTCCTCCGCC TCCAGCTCCG   120
CGCTGCCCGG CAGCCGGGAG CCATGCGACC CCAGGGCCCC GCCGCCTCCC CGCAGCGGCT   180
CCGCGGCCTC CTGCTGCTCC TGCTGCTGCA GCTGCCCGCG CCGTCGAGCG CCTCTGAGAT   240
CCCCAAGGGG AAGCAAAAGG CGCAGCTCCG GCAGAGGGAG GTGGTGGACC TGTATAATGG   300
AATGTGCTTA CAAGGGCCAG CAGGAGTGCC TGGTCGAGAC GGGAGCCCTG GGGCCAATGG   360
CATTCCGGGT ACACCTGGGA TCCCAGGTCG GGATGGATTC AAAGGAGAAA AGGGGGAATG   420
TCTGAGGGAA AGCTTTGAGG AGTCCTGGAC ACCCAACTAC AAGCAGTGTT CATGGAGTTC   480
ATTGAATTAT GGCATAGATC TTGGGAAAAT TGCGGAGTGT ACATTTACAA AGATGCGTTC   540
AAATAGTGCT CTAAGAGTTT TGTTCAGTGG CTCACTTCGG CTAAAATGCA GAAATGCATG   600
CTGTCAGCGT TGGTATTTCA CATTCAATGG AGCTGAATGT TCAGGACCTC TTCCCATTGA   660
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Seq ID NO: 413 Protein sequence
Protein Accession #: XP_057014

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Seq ID NO: 415 Protein sequence
Protein Accession #: XP_084007

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Seq ID NO: 416 DNA sequence
Nucleic Acid Accession #: NM_015419.1
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Protein Accession #: NP_056234.1

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LDMLMTSEER RKQLRDQYCF ECDCFRCQTQ DKDADMLTGD EQVWKEVQES LKKIEELKAH   240
WKWEQVLAMC QAIISSNSER LPDINIYQLK VLDCAMDACI NLGLLEEALF YGTRTMEPYR   300
IFFPGSHPVR GVQVMKVGKL QLHQGMFPQA MKNLRLAFDI MRVTHGREHS LIEDLILLLE   360
ECDANIRAS
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Seq ID NO: 422 DNA sequence
Nucleic Acid Accession #: NM_003014.2
Coding sequence: 238..648

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CGGAGCTCCG CGGCCGGACC CCGCGGCCCC GCTTTGCTGC CGACTGGAGT TTGGGGGAAG   120
AAACTCTCCT GCGCCCCAGA AGATTTCTTC CTCGGCGAAG GGACAGCGAA AGATGAGGGT   180
GGCAGGAAGA GAAGGCGCTT TCTGTCTGCC GGGGTCGCAG CGCGAGAGGG CAGTGCCATG   240
TTCCTCTCCA TCCTAGTGGC GCTGTGCCTG TGGCTGCACC TGGCGCTGGG CGTGCGCGGC   300
GCGCCCTGCG AGGCGGTGCG CATCCCTATG TGCCGGCACA TGCCCTGGAA CATCACGCGG   360
ATGCCCAACC ACCTGCACCA CAGCACGCAG GAGAACGCCA TCCTGGCCAT CGAGCAGTAC   420
GAGGAGCTGG TGGACGTGAA CTGCAGCGCC GTGCTGCGCT TCTTCTTCTG TGCCATGTAC   480
GCGCCCATTT GCACCCTGGA GTTCCTGCAC GACCCTATCA AGCCGTGCAA GTCGGTGTGC   540
CAACGCGCGC GCGACGACTG CGAGCCCCTC ATGAAGATGT ACAACCACAG CTGGCCCGAA   600
AGCCTGGCCT GCGACGAGCT GCCTGTCTAT GACCGTGGCG TGTGCATTTC GCCTGAAGCC   660
ATCGTCACGG ACCTCCCGGA GGATGTTAAG TGGATAGACA TCACACCAGA CATGATGGTA   720
CAGGAAAGGC CTCTTGATGT TGACTGTAAA CGCCTAAGCC CCGATCGGTG CAAGTGTAAA   780
AAGGTGAAGC CAACTTTGGC AACGTATCTC AGCAAAAACT ACAGCTATGT TATTCATGCC   840
AAAATAAAAG CTGTGCAGAG GAGTGGCTGC AATGAGGTCA CAACGGTGGT GGATGTAAAA   900
GAGATCTTCA AGTCCTCATC ACCCATCCCT CGAACTCAAG TCCCGCTCAT TACAAATTCT   960
TCTTGCCAGT GTCCACACAT CCTGCCCCAT CAAGATGTTC TCATCATGTG TTACGAGTGG  1020
CGTTCAAGGA TGATGCTTCT TGAAAATTGC TTAGTTGAAA AATGGAGAGA TCAGCTTAGT  1080
AAAAGATCCA TACAGTGGGA AGAGAGGCTG CAGGAACAGC GGAGAACAGT TCAGGACAAG  1140
AAGAAAACAG CCGGGCGCAC CAGTCGTAGT AATCCCCCCA AACCAAAGGG AAAGCCTCCT  1200
GCTCCCAAAC CAGCCAGTCC CAAGAAGAAC ATTAAAACTA GGAGTGCCCA GAAGAGAACA  1260
AACCCGAAAA GAGTGTGAGC TAACTAGTTT CCAAAGCGGA GACTTCCGAC TTCCTTACAG  1320
GATGAGGCTG GGCATTGCCT GGGACAGCCT ATGTAAGGCC ATGTGCCCCT TGCCCTAACA  1380
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GTTTTTCTTT GTAAGCCATC ACAAGCCATA GTGGTAGGTT TGCCCTTTGG TACAGAAGGT  1500
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CTAGAAGAGT AGGGAAAATA ATGCTTGTTA CAATTCGACC TAATATGTGC ATTGTAAAAT  1620
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TTTTTGTGAT GAAAGGGGAT TTTTTGAAAA ATTAGAGAAG TAGCATATGG AAAATTATAA  1860
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AAAAAGAACT TATTTGCAGC ATTTTATCAA CAAATTTCAT AATTGTGGAC AATTGGAGGC  2400
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ACTACACAGA GGTAATCACT ATTAGTATTT TGGCATATTA TTCTCCAGGT GTTTGCTTAT  2580
GCACTTATAA AATGATTTGA ACAAATAAAA CTAGGAACCT GTATACATGT GTTTCATAAC  2640
CTGCCTCCTT TGCTTGGCCC TTTATTGAGA TAAGTTTTCC TGTCAAGAAA GCAGAAACCA  2700
TCTCATTTCT AACAGCTGTG TTATATTCCA TAGTATGCAT TACTCAACAA ACTGTTGTGC  2760
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Seq ID NO: 423 Protein sequence
Protein Accession #: NP_003005.1

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YEELVDVNCS AVLRFFFCAM YAPICTLEFL HDPIKPCKSV CQRARDDCEP LMKMYNHSWP   120
ESLACDELPV YDRGVCISPE AIVTDLPEDV KWIDITPDMM VQERPLDVDC KRLSPDRCKC   180
KKVKPTLATY LSKNYSYVIH AKIKAVQRSG CNEVTTVVDV KEIFKSSSPI PRTQVPLITN   240
SSCQCPHILP HQDVLIMCYE WRSRMMLLEN CLVEKWRDQL SKRSIQWEER LQEQRRTVQD   300
KKKTAGRTSR SNPPKPKGKP PAPKPASPKK NIKTRSAQKR TNPKRV
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Seq ID NO: 424 DNA sequence
Nucleic Acid Accession #: BC010423
Coding sequence: 248..1780

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CAAGTGCGAG AGGCAAGAAC TCTGCAGCTT CCTGCCTTCT GGGTCAGTTC CTTATTCAAG   180
TCTGCAGCCG GCTCCCAGGG AGATCTCGGT GGAACTTCAG AAACGCTGGG CAGTCTGCCT   240
TTCAACCATG CCCCTGTCCC TGGGAGCCGA GATGTGGGGG CCTGAGGCCT GGCTGCTGCT   300
GCTGCTACTG CTGGCATCAT TTACAGGCCG GTGCCCCGCG GGTGAGCTGG AGACCTCAGA   360
CGTGGTAACT GTGGTGCTGG GCCAGGACGC AAAACTGCCC TGCTTCTACC GAGGGGACTC   420
CGGCGAGCAA GTGGGGCAAG TGGCATGGGC TCGGGTGGAC GCGGGCGAAG GCGCCCAGGA   480
ACTAGCGCTA CTGCACTCCA AATACGGGCT TCATGTGAGC CCGGCTTACG AGGGCCGCGT   540
GGAGCAGCCG CCGCCCCCAC GCAACCCCCT GGACGGCTCA GTGCTCCTGC GCAACGCAGT   600
GCAGGCGGAT GAGGGCGAGT ACGAGTGCCG GGTCAGCACC TTCCCCGCCG GCAGCTTCCA   660
GGCGCGGCTG CGGCTCCGAG TGCTGGTGCC TCCCCTGCCC TCACTGAATC CTGGTCCAGC   720
ACTAGAAGAG GGCCAGGGCC TGACCCTGGC AGCCTCCTGC ACAGCTGAGG GCAGCCCAGC   780
CCCCAGCGTG ACCTGGGACA CGGAGGTCAA AGGCACAACG TCCAGCCGTT CCTTCAAGCA   840
CTCCCGCTCT GCTGCCGTCA CCTCAGAGTT CCACTTGGTG CCTAGCCGCA GCATGAATGG   900
GCAGCCACTG ACTTGTGTGG TGTCCCATCC TGGCCTGCTC CAGGACCAAA GGATCACCCA   960
CATCCTCCAC GTGTCCTTCC TTGCTGAGGC CTCTGTGAGG GGCCTTGAAG ACCAAAATCT  1020
GTGGCACATT GGCAGAGAAG GAGCTATGCT CAAGTGCCTG AGTGAAGGGC AGCCCCCTCC  1080
CTCATACAAC TGGACACGGC TGGATGGGCC TCTGCCCAGT GGGGTACGAG TGGATGGGGA  1140
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CACTGTGTGT GTGCATGTGT GCCTGTGTGA GTGTTGACTG ACTGTGTGTG TGTGGAGGGG  2040
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GAGGCTTGAA CTGTTACAGA AGCCCTCTGC CCTCTGGTGG CCTCTGGGCC TGCTGCATGT  2460
ACATATTTTC TGTAAATATA CATGCGCCGG GAGCTTCTTG CAGGAATACT GCTCCGAATC  2520
ACTTTTAATT TTTTTCTTTT TTTTTTCTTG CCCTTTCCAT TAGTTGTATT TTTTATTTAT  2580
TTTTATTTTT ATTTTTTTTT AGAGTTTGAG TCCAGCCTGG ACGATATAGC CAGACCCTGT  2640
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CTGTAAAAAA ACCAAAACCC AAAAAAAAAA AAAAAAAAAA

Seq ID NO: 425 Protein sequence
Protein Accession #: AAH10423

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QVGQVAWARV DAGEGAQELA LLHSKYGLHV SPAYEGRVEQ PPPPRNPLDG SVLLRNAVQA   120
DEGEYECRVS TFPAGSFQAR LRLRVLVPPL PSLNPGPALE EGQGLTLAAS CTAEGSPAPS   180
VTWDTEVKGT TSSRSFKHSR SAAVTSEFHL VPSRSMNGQP LTCVVSHPGL LQDQRITHIL   240
HVSFLAEASV RGLEDQNLWH IGREGAMLKC LSEGQPPPSY NWTRLDGPLP SGVRVDGDTL   300
GFPPLTTEHS GIYVCHVSNE FSSRDSQVTV DVLDPQEDSG KQVDLVSASV VVVGVIAALL   360
FCLLVVVVVL MSRYHRRKAQ QMTQKYEEEL TLTRENSIRR LHSHHTDPRS QPEESVGLRA   420
EGHPDSLKDN SSCSVMSEEP EGRSYSTLTT VREIETQTEL LSPGSGRAEE EEDQDEGIKQ   480
AMNHFVQENG TLRAKPTGNG IYINGRGHLV
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Seq ID NO: 426 DNA sequence
Nucleic Acid Accession #: NM_003474.2
Coding sequence: 37..3036

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CTTTTTTAAA AATGAAAGGC TAGAAGAGCT CAGCGGCGGC GCGGGCCGTG CGCGAGGGCT   180
CCGGAGCTGA CTCGCCGAGG CAGGAAATCC CTCCGGTCGC GACGCCCGGC CCCGCTCGGC   240
GCCCGCGTGG GATGGTGCAG CGCTCGCCGC CGGGCCCGAG AGCTGCTGCA CTGAAGGCCG   300
GCGACGATGG CAGCGCGCCC GCTGCCCGTG TCCCCCGCCC GCGCCCTCCT GCTCGCCCTG   360
GCCGGTGCTC TGCTCGCGCC CTGCGAGGCC CGAGGGGTGA GCTTATGGAA CGAAGGAAGA   420
GCTGATGAAG TTGTCAGTGC CTCTGTTCGG AGTGGGGACC TCTGGATCCC AGTGAAGAGC   480
TTCGACTCCA AGAATCATCC AGAAGTGCTG AATATTCGAC TACAACGGGA AAGCAAAGAA   540
CTGATCATAA ATCTGGAAAG AAATGAAGGT CTCATTGCCA GCAGTTTCAC GGAAACCCAC   600
TATCTGCAAG ACGGTACTGA TGTCTCCCTC GCTCGAAATT ACACGGTAAT TCTGGGTCAC   660
TGTTACTACC ATGGACATGT ACGGGGATAT TCTGATTCAG CAGTCAGTCT CAGCACGTGT   720
TCTGGTCTCA GGGGACTTAT TGTGTTTGAA AATGAAAGCT ATGTCTTAGA ACCAATGAAA   780
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TGTGGATCAC ATCACAACAC ACCAAACCTC GCTGCAAAGA ATGTGTTTCC ACCACCCTCT   900
CAGACATGGG CAAGAAGGCA TAAAAGAGAG ACCCTCAAGG CAACTAAGTA TGTGGAGCTG   960
GTGATCGTGG CAGACAACCG AGAGTTTCAG AGGCAAGGAA AAGATCTGGA AAAAGTTAAG  1020
CAGCGATTAA TAGAGATTGC TAATCACGTT GACAAGTTTT ACAGACCACT GAACATTCGG  1080
ATCGTGTTGG TAGGCGTGGA AGTGTGGAAT GACATGGACA AATGCTCTGT AAGTCAGGAC  1140
CCATTCACCA GCCTCCATGA ATTTCTGGAC TGGAGGAAGA TGAAGCTTCT ACCTCGCAAA  1200
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GCCCCAATCA TGAGCATGTG CACGGCAGAC CAGTCTGGGG GAATTGTCAT GGACCATTCA  1320
GACAATCCCC TTGGTGCAGC CGTGACCCTG GCACATGAGC TGGGCCACAA TTTCGGGATG  1380
AATCATGACA CACTGGACAG GGGCTGTAGC TGTCAAATGG CGGTTGAGAA AGGAGGCTGC  1440
ATCATGAACG CTTCCACCGG GTACCCATTT CCCATGGTGT TCAGCAGTTG CAGCAGGAAG  1500
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AAGCCGGACG CTGTGTGCGC ACATGGGCTG TGCTGTGAAG ACTGCCAGCT GAAGCCTGCA  1740
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AGCCCTCACT GCCCAGCCAA CGTGTACCTG CACGATGGGC ACTCATGTCA GGATGTGGAC  1860
GGCTACTGCT ACAATGGCAT CTGCCAGACT CACGAGCAGC AGTGTGTCAC ACTCTGGGGA  1920
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TATGGCAACT GTGGCAAAGT CTCGAAGAGT TCCTTTGCCA AATGCGAGAT GAGAGATGCT  2040
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AGGAATCTTA AGGTGTAGCC ACACCAGGAT AGAGACTGGA ACACTAGACA AGCCAGAACT  3720
TGACCCTGAG CTGACCAGCC GTGAGCATGT TTGGAAGGGG TCTGTAGTGT CACTCAAGGC  3780
GGTGCTTGAT AGAAATGCCA AGCACTTCTT TTTCTCGCTG TCCTTTCTAG AGCACTGCCA  3840
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CAATGATCCT GTATTCAGAC AGATGAGGAC TTTCCATGGG ACCACAACTA TTTTCAGATG  4020
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TATATACTAT TAAAAAGGTT TACAGAATTT TATGGTGCAT TACGTGGGCA TTGTCTTTTT  4980
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Seq ID NO: 427 Protein sequence
Protein Accession #: NP_003465

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SKNHPEVLNI RLQRESKELI INLERNEGLI ASSFTETHYL QDGTDVSLAR NYTVILGHCY  120
YHGHVRGYSD SAVSLSTCSG LRGLIVFENE SYVLEPMKSA TNRYKLFPAK KLKSVRGSCG  180
SHHNTPNLAA KNVFPPPSQT WARRHKRETL KATKYVELVI VADNREFQRQ GKDLEKVKQR  240
LIEIANHVDK FYRPLNIRIV LVGVEVWNDM DKCSVSQDPF TSLHEFLDWR KMKLLPRKSH  300
DNAQLVSGVY FQGTTIGMAP IMSMCTADQS GGIVMDHSDN PLGAAVTLAH ELGHNFGMNH  360
DTLDRGCSCQ MAVEKGGCIM NASTGYPFPM VFSSCSRKDL ETSLEKGMGV CLFNLPEVRE  420
SFGGQKCGNR FVEEGEECDC GEPEECMNRC CNATTCTLKP DAVCAHGLCC EDCQLKPAGT  480
ACRDSSNSCD LPEFCTGASP HCPANVYLHD GHSCQDVDGY CYNGICQTHE QQCVTLWGPG  540
AKPAPGICFE RVNSAGDPYG NCGKVSKSSF AKCEMRDAKC GKIQCQGGAS RPVIGTNAVS  600
IETNIPLQQG GRILCRGTHV YLGDDMPDPG LVLAGTKCAD GKICLNRQCQ NISVFGVHEC  660
AMQCHGRGVC NNRKNCHCEA HWAPPFCDKF GFGGSTDSGP IRQADNQGLT IGILVTILCL  720
LAAGFVVYLK RKTLIRLLFT NKKTTIEKLR CVRPSRPPRG FQPCQAHLGH LGKGLMRKPP  780
DSYPPKDNPR RLLQCQNVDI SRPLNGLNVP QPQSTQRVLP PLHRAPRAPS VPARPLPAKP  840
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RSTHTAYIK
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Seq ID NO: 428 DNA sequence
Nucleic Acid Accession #: NM_003714
Coding sequence: 135..1043

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TGGCCACCTT TGACCCGGCG CGGGGGACCG ACGCCACCAA CCCACCCGAG GGTCCCCAAG  240
ACAGGAGCTC CCAGCAGAAA GGCCGCCTGT CCCTGCAGAA TACAGCGGAG ATCCAGCACT  300
GTTTGGTCAA CGCTGGCGAT GTGGGGTGTG GCGTGTTTGA ATGTTTCGAG AACAACTCTT  360
GTGAGATTCG GGGCTTACAT GGGATTTGCA TGACTTTTCT GCACAACGCT GGAAAATTTG  420
ATGCCCAGGG CAAGTCATTC ATCAAAGACG CCTTGAAATG TAAGGCCCAC GCTCTGCGGC  480
ACAGGTTCGG CTGCATAAGC CGGAAGTGCC CGGCCATCAG GGAAATGGTG TCCCAGTTGC  540
AGCGGGAATG CTACCTCAAG CACGACCTGT GCGCGGCTGC CCAGGAGAAC ACCCGGGTGA  600
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ACTTGCTGCT GACCTGTGGG GAGGAGGTGA AGGAGGCCAT CACCCACAGC GTGCAGGTTC  720
AGTGTGAGCA GAACTGGGGA AGCCTGTGCT CCATCTTGAG CTTCTGCACC TCGGCCATCC  780
AGAAGCCTCC CACGGCGCCC CCCGAGCGCC AGCCCCAGGT GGACAGAACC AAGCTCTCCA  840
GGGCCCACCA CGGGGAAGCA GGACATCACC TCCCAGAGCC CAGCAGTAGG GAGACTGGCC  900
GAGGTGCCAA GGGTGAGCGA GGTAGCAAGA GCCACCCAAA CGCCCATGCC CGAGGCAGAG  960
TCGGGGGCCT TGGGGCTCAG GGACCTTCCG GAAGCAGCGA GTGGGAAGAC GAACAGTCTG 1020
AGTATTCTGA TATCCGGAGG TGAAATGAAA GGCCTGGCCA CGAAATCTTT CCTCCACGCC 1080
GTCCATTTTC TTATCTATGG ACATTCCAAA ACATTTACCA TTAGAGAGGG GGGATGTCAC 1140
ACGCAGGATT CTGTGGGGAC TGTGGACTTC ATCGAGGTGT GTGTTCGCGG AACGGACAGG 1200
TGAGATGGAG ACCCCTGGGG CCGTGGGGTC TCAGGGGTGC CTGGTGAATT CTGCACTTAC 1260
ACGTACTCAA GGGAGCGCGC CCGCGTTATC CTCGTACCTT TGTCTTCTTT CCATCTGTGG 1320
AGTCAGTGGG TGTCGGCCGC TCTGTTGTGG GGGAGGTGAA CCAGGGAGGG GCAGGGCAAG 1380
GCAGGGCCCC CAGAGCTGGG CCACACAGTG GGTGCTGGGC CTCGCCCCGA AGCTTCTGGT 1440
GCAGCAGCCT CTGGTGCTGT CTCCGCGGAA GTCAGGGCGG CTGGATTCCA GGACAGGAGT 1500
GAATGTAAAA ATAAATATCG CTTAGAATGC AGGAGAAGGG TGGAGAGGAG GCAGGGGCCG 1560
AGGGGGTGCT TGGTGCCAAA CTGAAATTCA GTTTCTTGTG TGGGGCCTTG CGGTTCAGAG 1620
CTCTTGGCGA GGGTGGAGGG AGGAGTGTCA TTTCTATGTG TAATTTCTGA GCCATTGTAC 1680
TGTCTGGGCT GGGGGGGACA CTGTCCAAGG GAGTGGCCCC TATGAGTTTA TATTTTAACC 1740
ACTGCTTCAA ATCTCGATTT CACTTTTTTT ATTTATCCAG TTATATCTAC ATATCTGTCA 1800
TCTAAATAAA TGGCTTTCAA ACAAAGCAAC TGGGTCATTA AAACCAGCTC AAAGGGGGTT 1860
TAAAAAAAAA AAAACCAGCC CATCCTTTGA GGCTGATTTT TCTTTTTTTT AAGTTCTATT 1920
TTAAAAGCTA TCAAACAGCG ACATAGCCAT ACATCTGACT GCCTGACATG GACTCCTGCC 1980
CACTTGGGGG AAACCTTATA CCCAGAGGAA AATACACACC TGGGGAGTAC ATTTGACAAA 2040
TTTCCCTTAG GATTTCGTTA TCTCACCTTG ACCCTCAGCC AAGATTGGTA AAGCTGCGTC 2100
CTGGCGATTC CAGGAGACCC AGCTGGAAAC CTGGCTTCTC CATGTGAGGG GATGGGAAAG 2160
GAAAGAAGAG AATGAAGACT ACTTAGTAAT TCCCATCAGG AAATGCTGAC CTTTTACATA 2220
```

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AAATCAAGGA GACTGCTGAA AATCTCTAAG GGACAGGATT TTCCAGATCC TAATTGGAAA  2280
TTTAGCAATA AGGAGAGGAG TCCAAGGGGA CAAATAAAGG CAGAGAGAGA GAGAGAGAGA  2340
GGGAGAGGAA GAAAAGAGAG AGAGAAAAGA GCCTCGTGCC
```

Seq ID NO: 429 Protein sequence
Protein Accession #: NP_003705

```
1          11         21         31         41         51
|          |          |          |          |          |
MCAERLGQFM TLALVLATFD PARGTDATNP PEGPQDRSSQ QKGRLSLQNT AEIQHCLVNA    60
GDVGCGVFEC FENNSCEIRG LHGICMTFLH NAGKFDAQGK SFIKDALKCK AHALRHRFGC   120
ISRKCPAIRE MVSQLQRECY LKHDLCAAAQ ENTRVIVEMI HFKDLLLHEP YVDLVNLLLT   180
CGEEVKEAIT HSVQVQCEQN WGSLCSILSF CTSAIQKPPT APPERQPQVD RTKLSRAHHG   240
EAGHHLPEPS SRETGRGAKG ERGSKSHPNA HARGRVGGLG AQGPSGSSEW EDEQSEYSDI   300
RR
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Seq ID NO: 430 DNA sequence
Nucleic Acid Accession #: NM_005940
Coding sequence: 23..1489

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1          11         21         31         41         51
|          |          |          |          |          |
AAGCCCAGCA GCCCCGGGGC GGATGGCTCC GGCCGCCTGG CTCCGCAGCG CGGCCGCGCG    60
CGCCCTCCTG CCCCCGATGC TGCTGCTGCT GCTCCAGCCG CCGCCGCTGC TGGCCCGGGC   120
TCTGCCGCCG GACGTCCACC ACCTCCATGC CGAGAGGAGG GGGCCACAGC CCTGGCATGC   180
AGCCCTGCCC AGTAGCCCGG CACCTGCCCC TGCCACGCAG GAAGCCCCCC GGCCTGCCAG   240
CAGCCTCAGG CCTCCCCGCT GTGGCGTGCC CGACCCATCT GATGGGCTGA GTGCCCGCAA   300
CCGACAGAAG AGGTTCGTGC TTTCTGGCGG GCGCTGGGAG AAGACGGACC TCACCTACAG   360
GATCCTTCGG TTCCCATGGC AGTTGGTGCA GGAGCAGGTG CGGCAGACGA TGGCAGAGGC   420
CCTAAAGGTA TGGAGCGATG TGACGCCACT CACCTTTACT GAGGTGCACG AGGGCCGTGC   480
TGACATCATG ATCGACTTCG CCAGGTACTG GCATGGGGAC GACCTGCCGT TTGATGGGCC   540
TGGGGGCATC CTGGCCCATG CCTTCTTCCC CAAGACTCAC CGAGAAGGGG ATGTCCACTT   600
CGACTATGAT GAGACCTGGA CTATCGGGGA TGACCAGGGC ACAGACCTGC TGCAGGTGGC   660
AGCCCATGAA TTTGGCCACG TGCTGGGGCT GCAGCACACA ACAGCAGCCA AGGCCCTGAT   720
GTCCGCCTTC TACACCTTTC GCTACCCACT GAGTCTCAGC CCAGATGACT GCAGGGGCGT   780
TCAACACCTA TATGGCCAGC CCTGGCCCAC TGTCACCTCC AGGACCCCAG CCCTGGGCCC   840
CCAGGCTGGG ATAGACACCA ATGAGATTGC ACCGCTGGAG CCAGACGCCC CGCCAGATGC   900
CTGTGAGGCC TCCTTTGACG CGGTCTCCAC CATCCGAGGC GAGCTCTTTT TCTTCAAAGC   960
GGGCTTTGTG TGGCGCCTCC GTGGGGGCCA GCTGCAGCCC GGCTACCCAG CATTGGCCTC  1020
TCGCCACTGG CAGGGACTGC CCAGCCCTGT GGACGCTGCC TTCGAGGATG CCCAGGGCCA  1080
CATTTGGTTC TTCCAAGGTG CTCAGTACTG GGTGTACGAC GGTGAAAAGC CAGTCCTGGG  1140
CCCCGCACCC CTCACCGAGC TGGGCCTGGT GAGGTTCCCG GTCCATGCTG CCTTGGTCTG  1200
GGGTCCCGAG AAGAACAAGA TCTACTTCTT CCGAGGCAGG GACTACTGGC GTTTCCACCC  1260
CAGCACCCGG CGTGTAGACA GTCCCGTGCC CCGCAGGGCC ACTGACTGGA GAGGGGTGCC  1320
CTCTGAGATC GACGCTGCCT TCCAGGATGC TGATGGCTAT GCCTACTTCC TGCGCGGCCG  1380
CCTCTACTGG AAGTTTGACC CTGTGAAGGT GAAGGCTCTG GAAGGCTTCC CCCGTCTCGT  1440
GGGTCCTGAC TTCTTTGGCT GTGCCGAGCC TGCCAACACT TTCCTCTGAC CATGGCTTGG  1500
ATGCCCTCAG GGGTGCTGAC CCCTGCCAGG CCACGAATAT CAGGCTAGAG ACCCATGGCC  1560
ATCTTTGTGG CTGTGGGCAC CAGGCATGGG ACTGAGCCCA TGTCTCCTGC AGGGGGATGG  1620
GGTGGGGTAC AACCACCATG ACAACTGCCG GGAGGGCCAC GCAGGTCGTG GTCACCTGCC  1680
AGCGACTGTC TCAGACTGGG CAGGGAGGCT TTGGCATGAC TTAAGAGGAA GGGCAGTCTT  1740
GGGACCCGCT ATGCAGGTCC TGGCAAACCT GGCTGCCCTG TCTCATCCCT GTCCCTCAGG  1800
GTAGCACCAT GGCAGGACTG GGGGAACTGG AGTGTCCTTG CTGTATCCCT GTTGTGAGGT  1860
TCCTTCCAGG GGCTGGCACT GAAGCAAGGG TGCTGGGGCC CCATGGCCTT CAGCCCTGGC  1920
TGAGCAACTG GGCTGTAGGG CAGGGCCACT TCCTGAGGTC AGGTCTTGGT AGGTGCCTGC  1980
ATCTGTCTGC CTTCTGGCTG ACAATCCTGG AAATCTGTTC TCCAGAATCC AGGCCAAAAA  2040
GTTCACAGTC AAATGGGGAG GGGTATTCTT CATGCAGGAG ACCCCAGGCC CTGGAGGCTG  2100
CAACATACCT CAATCCTGTC CCAGGCCGGA TCCTCCTGAA GCCCTTTTCG CAGCACTGCT  2160
ATCCTCCAAA GCCATTGTAA ATGTGTGTAC AGTGTGTATA AACCTTCTTC TTCTTTTTTT  2220
TTTTTAAACT GAGGATTGTC ATTAAACACA GTTGTTTTCT
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Seq ID NO: 431 Protein sequence
Protein Accession #: NP_005931

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1          11         21         31         41         51
|          |          |          |          |          |
MAPAAWLRSA AARALLPPML LLLLQPPPLL ARALPPDVHH LHAERRGPQP WHAALPSSPA    60
PAPATQEAPR PASSLRPPRC GVPDPSDGLS ARNRQKRFVL SGGRWEKTDL TYRILRFPWQ   120
LVQEQVRQTM AEALKVWSDV TPLTFTEVHE GRADIMIDFA RYWHGDDLPF DGPGGILAHA   180
FFPKTHREGD VHFDYDETWT IGDDQGTDLL QVAAHEFGHV LGLQHTTAAK ALMSAFYTFR   240
YPLSLSPDDC RGVQHLYGQP WPTVTSRTPA LGPQAGIDTN EIAPLEPDAP PDACEASFDA   300
VSTIRGELFF FKAGFVWRLR GGQLQPGYPA LASRHWQGLP SPVDAAFEDA QGHIWFFQGA   360
QYWVYDGEKP VLGPAPLTEL GLVRFPVHAA LVWGPEKNKI YFFRGRDYWR FHPSTRRVDS   420
PVPRRATDWR GVPSEIDAAF QDADGYAYFL RGRLYWKFDP VKVKALEGFP RLVGPDFFGC   480
AEPANTFL
```

Seq ID NO: 432 DNA sequence
Nucleic Acid Accession #: NM_024022
Coding sequence: 202..1563

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1          11         21         31         41         51
|          |          |          |          |          |
ACCGGGCACC GGACGGCTCG GGTACTTTCG TTCTTAATTA GGTCATGCCC GTGTGAGCCA    60
GGAAAGGGCT GTGTTTATGG GAAGCCAGTA ACACTGTGGC CTACTATCTC TTCCGTGGTG   120
CCATCTACAT TTTTGGGACT CGGGAATTAT GAGGTAGAGG TGGAGGCGGA GCCGGATGTC   180
AGAGGTCCTG AAATAGTCAC CATGGGGGAA AATGATCCGC CTGCTGTTGA AGCCCCCTTC   240
TCATTCCGAT CGCTTTTTGG CCTTGATGAT TTGAAAATAA GTCCTGTTGC ACCAGATGCA   300
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GATGCTGTTG CTGCACAGAT CCTGTCACTG CTGCCATTGA AGTTTTTTCC AATCATCGTC   360
ATTGGGATCA TTGCATTGAT ATTAGCACTG GCCATTGGTC TGGGCATCCA CTTCGACTGC   420
TCAGGGAAGT ACAGATGTCG CTCATCCTTT AAGTGTATCG AGCTGATAGC TCGATGTGAC   480
GGAGTCTCGG ATTGCAAAGA CGGGGAGGAC GAGTACCGCT GTGTCCGGGT GGGTGGTCAG   540
AATGCCGTGC TCCAGGTGTT CACAGCTGCT TCGTGGAAGA CCATGTGCTC CGATGACTGG   600
AAGGGTCACT ACGCAAATGT TGCCTGTGCC CAACTGGGTT TCCCAAGCTA TGTGAGTTCA   660
GATAACCTCA GAGTGAGCTC GCTGGAGGGG CAGTTCCGGG AGGAGTTTGT GTCCATCGAT   720
CACCTCTTGC CAGATGACAA GGTGACTGCA TTACACCACT CAGTATATGT GAGGGAGGGA   780
TGTGCCTCTG GCCACGTGGT TACCTTGCAG TGCACAGCCT GTGGTCATAG AAGGGGCTAC   840
AGCTCACGCA TCGTGGGTGG AAACATGTCC TTGCTCTCGC AGTGGCCCTG GCAGGCCAGC   900
CTTCAGTTCC AGGGCTACCA CCTGTGCGGG GGCTCTGTCA TCACGCCCCT GTGGATCATC   960
ACTGCTGCAC ACTGTGTTTA TGACTTGTAC CTCCCCAAGT CATGGACCAT CCAGGTGGGT  1020
CTAGTTTCCC TGTTGGACAA TCCAGCCCCA TCCCACTTGG TGGAGAAGAT TGTCTACCAC  1080
AGCAAGTACA AGCCAAAGAG GCTGGGCAAT GACATCGCCC TTATGAAGCT GGCCGGGCCA  1140
CTCACGTTCA ATGAAATGAT CCAGCCTGTG TGCCTGCCCA ACTCTGAAGA GAACTTCCCC  1200
GATGGAAAAG TGTGCTGGAC GTCAGGATGG GGGGCCACAG AGGATGGAGG TGACGCCTCC  1260
CCTGTCCTGA ACCACGCGGC CGTCCCTTTG ATTTCCAACA AGATCTGCAA CCACAGGGAC  1320
GTGTACGGTG GCATCATCTC CCCCTCCATG CTCTGCGCGG GCTACCTGAC GGGTGGCGTG  1380
GACAGCTGCC AGGGGGACAG CGGGGGGCCC CTGGTGTGTC AAGAGAGGAG GCTGTGGAAG  1440
TTAGTGGGAG CGACCAGCTT TGGCATCGGC TGCGCAGAGG TGAACAAGCC TGGGGTGTAC  1500
ACCCGTGTCA CCTCCTTCCT GGACTGGATC CACGAGCAGA TGGAGAGAGA CCTAAAAACC  1560
TGAAGAGGAA GGGGACAAGT AGCCACCTGA GTTCCTGAGG TGATGAAGAC AGCCCGATCC  1620
TCCCCTGGAC TCCCGTGTAG GAACCTGCAC ACGAGCAGAC ACCCTTGGAG CTCTGAGTTC  1680
CGGCACCAGT AGCAGGCCCG AAAGAGGCAC CCTTCCATCT GATTCCAGCA CAACCTTCAA  1740
GCTGCTTTTT GTTTTTTGTT TTTTTGAGGT GGAGTCTCGC TCTGTTGCCC AGGCTGGAGT  1800
GCAGTGGCGA AATCCCTGCT CACTGCAGCC TCCGCTTCCC TGGTTCAAGC GATTCTCTTG  1860
CCTCAGCTTC CCCAGTAGCT GGGACCACAG GTGCCCGCCA CCACACCCAA CTAATTTTTG  1920
TATTTTTAGT AGAGACAGGG TTTCACCATG TTGGCCAGGC TGCTCTCAAA CCCCTGACCT  1980
CAAATGATGT GCCTGCTTCA GCCTCCCACA GTGCTGGGAT TACAGGCATG GGCCACCACG  2040
CCTAGCCTCA CGCTCCTTTC TGATCTTCAC TAAGAACAAA AGAAGCAGCA ACTTGCAAGG  2100
GCGGCCTTTC CCACTGGTCC ATCTGGTTTT CTCTCCAGGG GTCTTGCAAA ATTCCTGACG  2160
AGATAAGCAG TTATGTGACC TCACGTGCAA AGCCACCAAC AGCCACTCAG AAAAGACGCA  2220
CCAGCCCAGA AGTGCAGAAC TGCAGTCACT GCACGTTTTC ATCTCTAGGG ACCAGAACCA  2280
AACCCACCCT TTCTACTTCC AAGACTTATT TTCACATGTG GGGAGGTTAA TCTAGGAATG  2340
ACTCGTTTAA GGCCTATTTT CATGATTTCT TTGTAGCATT TGGTGCTTGA CGTATTATTG  2400
TCCTTTGATT CCAAATAATA TGTTTCCTTC CCTCAAAAAA AAAAAAAAAA AAAAAAAAAA  2460
AAAAA
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Seq ID NO: 433 Protein sequence
Protein Accession #: NP_076927

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1          11         21         31         41         51
|          |          |          |          |          |
MGENDPPAVE APFSFRSLFG LDDLKISPVA PDADAVAAQI LSLLPLKFFP IIVIGIIALI    60
LALAIGLGIH FDCSGKYRCR SSFKCIELIA RCDGVSDCKD GEDEYRCVRV GGQNAVLQVF   120
TAASWKTMCS DDWKGHYANV ACAQLGFPSY VSSDNLRVSS LEGQFREEFV SIDHLLPDDK   180
VTALHHSVYV REGCASGHVV TLQCTACGHR RGYSSRIVGG NMSLLSQWPW QASLQFQGYH   240
LCGGSVITPL WIITAAHCVY DLYLPKSWTI QVGLVSLLDN PAPSHLVEKI VYHSKYKPKR   300
LGNDIALMKL AGPLTFNEMI QPVCLPNSEE NFPDGKVCWT SGWGATEDGG DASPVLNHAA   360
VPLISNKICN HRDVYGGIIS PSMLCAGYLT GGVDSCQGDS GGPLVCQERR LWKLVGATSF   420
GIGCAEVNKP GVYTRVTSFL DWIHEQMERD LKT
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Seq ID NO: 434 DNA sequence
Nucleic Acid Accession #: NM_000493.2
Coding sequence: 97..2139

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1          11         21         31         41         51
|          |          |          |          |          |
CACCTTCTGC ACTGCTCATC TGGGCAGAGG AAGCTTCAGA AAGCTGCCAA GGCACCATCT    60
CCAGGAACTC CCAGCACGCA GAATCCATCT GAGAATATGC TGCCACAAAT ACCCTTTTTG   120
CTGCTAGTAT CCTTGAACTT GGTTCATGGA GTGTTTTACG CTGAACGATA CCAAATGCCC   180
ACAGGCATAA AAGGCCCACT ACCCAACACC AAGACACAGT TCTTCATTCC CTACACCATA   240
AAGAGTAAAG GTATAGCAGT AAGAGGAGAG CAAGGTACTC CTGGTCCACC AGGCCCTGCT   300
GGACCTCGAG GGCACCCAGG TCCTTCTGGA CCACCAGGAA AACCAGGCTA CGGAAGTCCT   360
GGACTCCAAG GAGAGCCAGG GTTGCCAGGA CCACCGGGAC CATCAGCTGT AGGGAAACCA   420
GGTGTGCCAG GACTCCCAGG AAAACCAGGA GAGAGAGGAC CATATGGACC AAAAGGAGAT   480
GTTGGACCAG CTGGCCTACC AGGACCCCGG GGCCCACCAG GACCACCTGG AATCCCTGGA   540
CCGGCTGGAA TTTCTGTGCC AGGAAAACCT GGACAACAGG GACCCACAGG AGCCCCAGGA   600
CCCAGGGGCT TTCCTGGAGA AAAGGGTGCA CCAGGAGTCC CTGGTATGAA TGGACAGAAA   660
GGGGAAATGG GATATGGTGC TCCTGGTCGT CCAGGTGAGA GGGGTCTTCC AGGCCCTCAG   720
GGTCCCACAG GACCATCTGG CCCTCCTGGA GTGGGAAAAA GAGGTGAAAA TGGGGTTCCA   780
GGACAGCCAG GCATCAAAGG TGATAGAGGT TTTCCGGGAG AAATGGGACC AATTGGCCCA   840
CCAGGTCCCC AAGGCCCTCC TGGGGAACGA GGGCCAGAAG GCATTGGAAA GCCAGGAGCT   900
GCTGGAGCCC CAGGCCAGCC AGGGATTCCA GGAACAAAAG GTCTCCCTGG GGCTCCAGGA   960
ATAGCTGGGC CCCCAGGGCC TCCTGGCTTT GGGAAACCAG GCTTGCCAGG CCTGAAGGGA  1020
GAAAGAGGAC CTGCTGGCCT TCCTGGGGGT CCAGGTGCCA AAGGGGAACA AGGGCCAGCA  1080
GGTCTTCCTG GGAAGCCAGG TCTGACTGGA CCCCCTGGGA ATATGGGACC CCAAGGACCA  1140
AAAGGCATCC CGGGTAGCCA TGGTCTCCCA GGCCCTAAAG GTGAGACAGG GCCAGCTGGG  1200
CCTGCAGGAT ACCCTGGGGC TAAGGGTGAA AGGGGTTCCC CTGGGTCAGA TGGAAAACCA  1260
GGGTACCCAG GAAAACCAGG TCTCGATGGT CCTAAGGGTA ACCCAGGGTT ACCAGGTCCA  1320
AAAGGTGATC CTGGAGTTGG AGGACCTCCT GGTCTCCCAG GCCCTGTGGG CCCAGCAGGA  1380
GCAAAGGGAA TGCCCGGACA CAATGGAGAG GCTGGCCCAA GAGGTGCCCC TGGAATACCA  1440
GGTACTAGAG GCCCTATTGG GCCACCAGGC ATTCCAGGAT TCCCTGGGTC TAAAGGGGAT  1500
CCAGGAAGTC CCGGTCCTCC TGGCCCAGCT GGCATAGCAA CTAAGGGCCT CAATGGACCC  1560
ACCGGGCCAC CAGGGCCTCC AGGTCCAAGA GGCCACTCTG GAGAGCCTGG TCTTCCAGGG  1620
CCCCCTGGGC CTCCAGGCCC ACCAGGTCAA GCAGTCATGC CTGAGGGTTT TATAAAGGCA  1680
GGCCAAAGGC CCAGTCTTTC TGGGACCCCT CTTGTTAGTG CCAACCAGGG GGTAACAGGA  1740
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ATGCCTGTGT CTGCTTTTAC TGTTATTCTC TCCAAAGCTT ACCCAGCAAT AGGAACTCCC  1800
ATACCATTTG ATAAAATTTT GTATAACAGG CAACAGCATT ATGACCCAAG GACTGGAATC  1860
TTTACTTGTC AGATACCAGG AATATACTAT TTTTCATACC ACGTGCATGT GAAAGGGACT  1920
CATGTTTGGG TAGGCCTGTA TAAGAATGGC ACCCCTGTAA TGTACACCTA TGATGAATAC  1980
ACCAAAGGCT ACCTGGATCA GGCTTCAGGG AGTGCCATCA TCGATCTCAC AGAAAATGAC  2040
CAGGTGTGGC TCCAGCTTCC CAATGCCGAG TCAAATGGCC TATACTCCTC TGAGTATGTC  2100
CACTCCTCTT TCTCAGGATT CCTAGTGGCT CCAATGTGAG TACACCCCAC AGAGCTAATC  2160
TAAATCTTGT GCTAGAAAAA GCATTCTCTA ACTCTACCCC ACCCTACAAA ATGCATATGG  2220
AGGTAGGCTG AAAAGAATGT AATTTTTATT TTCTGAAATA CAGATTTGAG CTATCAGACC  2280
AACAAACCTT CCCCCTGAAA AGTGAGCAGC AACGTAAAAA CGTATGTGAA GCCTCTCTTG  2340
AATTTCTAGT TAGCAATCTT AAGGCTCTTT AAGGTTTTCT CCAATATTAA AAAATATCAC  2400
CAAAGAAGTC CTGCTATGTT AAAAACAAAC AACAAAAAAC AAAGCAACAA AAAAAAAAAT  2460
TAAAAAAAAA AACAGAAATA GAGCTCTAAG TTATGTGAAA TTTGATTTGA GAAACTCGGC  2520
ATTTCCTTTT TAAAAAAGCC TGTTTCTAAC TATGAATATG AGAACTTCTA GGAAACATCC  2580
AGGAGGTATC ATATAACTTT GTAGAACTTA AATACTTGAA TATTCAAATT TAAAAGACAC  2640
TGTATCCCCT AAAATATTTC TGATGGTGCA CTACTCTGAG GCCTGTATGG CCCCTTTCAT  2700
CAATATCTAT TCAAATATAC AGGTGCATAT ATACTTGTTA AAGCTCTTAT ATAAAAAAGC  2760
CCCAAAATAT TGAAGTTCAT CTGAAATGCA AGGTGCTTTC ATCAATGAAC CTTTTCAAAA  2820
CTTTTCTATG ATTGCAGAGA AGCTTTTTAT ATACCCAGCA TAACTTGGAA ACAGGTATCT  2880
GACCTATTCT TATTTAGTTA ACACAAGTGT GATTAATTTG ATTTCTTTAA TTCCTTATTG  2940
AATCTTATGT GATATGATTT TCTGGATTTA CAGAACATTA GCACATGTAC CTTGTGCCTC  3000
CCATTCAAGT GAAGTTATAA TTTACACTGA GGGTTTCAAA ATTCGACTAG AAGTGGAGAT  3060
ATATTATTTA TTTATGCACT GTACTGTATT TTTATATTGC TGTTTAAAAC TTTTAAGCTG  3120
TGCCTCACTT ATTAAAGCAC AAAATGTTTT ACCTACTCCT TATTTACGAC ACAATAAAAT  3180
AACATCAATA GATTTTTAGG CTGAATTAAT TTGAAAGCAG CAATTTGCTG TTCTCAACCA  3240
TTCTTTCAAG GCTTTTCATT CGACACAATA AAATAACATC AATAG
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Seq ID NO: 435 Protein sequence
Protein Accession #: NP_000484.2

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1           11          21          31          41          51
|           |           |           |           |           |
MLPQIPFLLL VSLNLVHGVF YAERYQMPTG IKGPLPNTKT QFFIPYTIKS KGIAVRGEQG    60
TPGPPGPAGP RGHPGPSGPP GKPGYGSPGL QGEPGLPGPP GPSAVGKPGV PGLPGKPGER   120
GPYGPKGDVG PAGLPGPRGP PGPPGIPGPA GISVPGKPGQ QGPTGAPGPR GFPGEKGAPG   180
VPGMNGQKGE MGYGAPGRPG ERGLPGPQGP TGPSGPPGVG KRGENGVPGQ PGIKGDRGFP   240
GEMGPIGPPG PQGPPGERGP EGIGKPGAAG APGQPGIPGT KGLPGAPGIA GPPGPPGFGK   300
PGLPGLKGER GPAGLPGGPG AKGEQGPAGL PGKPGLTGPP GNMGPQGPKG IPGSHGLPGP   360
KGETGPAGPA GYPGAKGERG SPGSDGKPGY PGKPGLDGPK GNPGLPGPKG DPGVGGPPGL   420
PGPVGPAGAK GMPGHNGEAG PRGAPGIPGT RGPIGPPGIP GFPGSKGDPG SPGPPGPAGI   480
ATKGLNGPTG PPGPPGPRGH SGEPGLPGPP GPPGPPGQAV MPEGFIKAGQ RPSLSGTPLV   540
SANQGVTGMP VSAFTVILSK AYPAIGTPIP FDKILYNRQQ HYDPRTGIFT CQIPGIYYFS   600
YHVHVKGTHV WVGLYKNGTP VMYTYDEYTK GYLDQASGSA IIDLTENDQV WLQLPNAESN   660
GLYSSEYVHS SFSGFLVAPM
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Seq ID NO: 436 DNA sequence
Nucleic Acid Accession #: XM_062811
Coding sequence: 1..888

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1           11          21          31          41          51
|           |           |           |           |           |
ATGTGGGGCG CTCGCCGCTC GTCCGTCTCC TCATCCTGGA ACGCCGCTTC GCTCCTGCAG    60
CTGCTGCTGG CTGCGCTGCT GGCGGCGGGG GCGAGGGCCA GCGGCGAGTA CTGCCACGGC   120
TGGCTGGACG CGCAGGGCGT CTGGCGCATC GGCTTCCAGT GTCCCGAGCG CTTCGACGGC   180
GGCGACGCCA CCATCTGCTG CGGCAGCTGC GCGTTGCGCT ACTGCTGCTC CAGCGCCGAG   240
GCGCGCCTGG ACCAGGGCGG CTGCGACAAT GACCGCCAGC AGGGCGCTGG CGAGCCTGGC   300
CGGGCGGACA AAGACGGCCC CGACGGCTCG GCAGTGCCCA TCTACGTGCC GTTCCTCATT   360
GTTGGCTCCG TGTTTGTCGC CTTTATCATC TTGGGGTCCC TGGTGGCAGC CTGTTGCTGC   420
AGATGTCTCC GGCCTAAGCA GGATCCCCAG CAGAGCCGAG CCCCAGGGGG TAACCGCTTG   480
ATGGAGACCA TCCCCATGAT CCCCAGTGCC AGCACCTCCC GGGGGTCGTC CTCACGCCAG   540
TCCAGCACAG CTGCCAGTTC CAGCTCCAGC GCCAACTCAG GGGCCCGGGC GCCCCCAACA   600
AGGTCACAGA CCAACTGTTG CTTGCCGGAA GGGACCATGA ACAACGTGTA TGTCAACATG   660
CCCACGAATT TCTCTGTGCT GAACTGTCAG CAGGCCACCC AGATTGTGCC ACATCAAGGG   720
CAGTATCTGC ATCCCCCATA CGTGGGGTAC ACGGTGCAGC ACGACTCTGT GCCCATGACA   780
GCTGTGCCAC CTTTCATGGA CGGCCTGCAG CCTGGCTACA GGCAGATTCA GTCCCCCTTC   840
CCTCACACCA ACAGTGAACA GAAGATGTAC CCAGCGGTGA CTGTATAA
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Seq ID NO: 437 Protein sequence
Protein Accession #: XP_062811

```
1           11          21          31          41          51
|           |           |           |           |           |
MWGARRSSVS SSWNAASLLQ LLLAALLAAG ARASGEYCHG WLDAQGVWRI GFQCPERFDG    60
GDATICCGSC ALRYCCSSAE ARLDQGGCDN DRQQGAGEPG RADKDGPDGS AVPIYVPFLI   120
VGSVFVAFII LGSLVAACCC RCLRPKQDPQ QSRAPGGNRL METIPMIPSA STSRGSSSRQ   180
SSTAASSSSS ANSGARAPPT RSQTNCCLPE GTMNNVYVNM PTNFSVLNCQ QATQIVPHQG   240
QYLHPPYVGY TVQHDSVPMT AVPPFMDGLQ PGYRQIQSPF PHTNSEQKMY PAVTV
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Seq ID NO: 438 DNA sequence
Nucleic Acid Accession #: NM_004004.1
Coding sequence: 1..681

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1           11          21          31          41          51
|           |           |           |           |           |
ATGGATTGGG GCACGCTGCA GACGATCCTG GGGGGTGTGA ACAAACACTC CACCAGCATT    60
GGAAAGATCT GGCTCACCGT CCTCTTCATT TTTCGCATTA TGATCCTCGT TGTGGCTGCA   120
AAGGAGGTGT GGGGAGATGA GCAGGCCGAC TTTGTCTGCA ACACCCTGCA GCCAGGCTGC   180
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AAGAACGTGT GCTACGATCA CTACTTCCCC ATCTCCCACA TCCGGCTATG GGCCCTGCAG   240
CTGATCTTCG TGTCCAGCCC AGCGCTCCTA GTGGCCATGC ACGTGGCCTA CCGGAGACAT   300
GAGAAGAAGA GGAAGTTCAT CAAGGGGGAG ATAAAGAGTG AATTTAAGGA CATCGAGGAG   360
ATCAAAACCC AGAAGGTCCG CATCGAAGGC TCCCTGTGGT GGACCTACAC AAGCAGCATC   420
TTCTTCCGGG TCATCTTCGA AGCCGCCTTC ATGTACGTCT TCTATGTCAT GTACGACGGC   480
TTCTCCATGC AGCGGCTGGT GAAGTGCAAC GCCTGGCCTT GTCCCAACAC TGTGGACTGC   540
TTTGTGTCCC GGCCCACGGA GAAGACTGTC TTCACAGTGT TCATGATTGC AGTGTCTGGA   600
ATTTGCATCC TGCTGAATGT CACTGAATTG TGTTATTTGC TAATTAGATA TTGTTCTGGG   660
AAGTCAAAAA AGCCAGTTTA A
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Seq ID NO: 439 Protein sequence
Protein Accession #: NP_003995.1

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1           11          21          31          41          51
|           |           |           |           |           |
MDWGTLQTIL GGVNKHSTSI GKIWLTVLFI FRIMILVVAA KEVWGDEQAD FVCNTLQPGC    60
KNVCYDHYFP ISHIRLWALQ LIFVSSPALL VAMHVAYRRH EKKRKFIKGE IKSEFKDIEE   120
IKTQKVRIEG SLWWTYTSSI FFRVIFEAAF MYVFYVMYDG FSMQRLVKCN AWPCPNTVDC   180
FVSRPTEKTV FTVFMIAVSG ICILLNVTEL CYLLIRYCSG KSKKPV
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Seq ID NO: 440 DNA sequence
Nucleic Acid Accession #: XM_061091.1
Coding sequence: 1..2481

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CACCGAGCGC TGGTCGCCGC TCTCCTTCCG GTGAGTCCCA GCCCCGAGTT GGCTCTGGCG   120
CCCGGGTACC CGCCAGTGCC GGCTGCCGAT GACCGATTCA CGCTCCCGAT GATTGGAGGT   180
CAGATGCATG GTGAGAAGGT AGATCTCTGG AGCCTTGGTG TTCTTTGCTA TGAATTTTTA   240
GTTGGGAAGC CTCCTTTTGA GGCAAACGAA GTCCATGTAA GCAAAGAAAC CATCGGGAAG   300
ATTTCAGCTG CCAGCAAAAT GATGTGGTGC TCGGCTGCAG TGGACATCAT GTTTCTGTTA   360
GATGGGTCTA ACAGCGTCGG GAAAGGGAGC TTTGAAAGGT CCAAGCACTT TGCCATCACA   420
GTCTGTGACG GTCTGGACAT CAGCCCCGAG AGGGTCAGAG TGGGAGCATT CCAGTTCAGT   480
TCCACTCCTC ATCTGGAATT CCCCTTGGAT TCATTTTCAA CCCAACAGGA AGTGAAGGCA   540
AGAATCAAGA GGATGGTTTT CAAAGGAGGG CGCACGGAGA CGGAACTTGC TCTGAAATAC   600
CTTCTGCACA GAGGGTTGCC TGGAGGCAGA AATGCTTCTG TGCCCCAGAT CCTCATCATC   660
GTCACTGATG GGAAGTCCCA GGGGGATGTG GCACTGCCAT CCAAGCAGCT GAAGGAAAGG   720
GGTGTCACTG TGTTTGCTGT GGGGGTCAGG TTTCCCAGGT GGGAGGAGCT GCATGCACTG   780
GCCAGCGAGC CTAGAGGGCA GCACGTGCTG TTGGCTGAGC AGGTGGAGGA TGCCACCAAC   840
GGCCTCTTCA GCACCCTCAG CAGCTCGGCC ATCTGCTCCA GCGCCACGCC AGCTGGGAGC   900
CCCGAGCTTG TCTTCATGGA GCGGTTAATG GGCATCTCTC TGATAGGCCC CTGTGACTCG   960
CAGCCCTGCC AGAATGGAGG CACATGTGTT CCAGAAGGAC TGGACGGCTA CCAGTGCCTC  1020
TGCCCGCTGG CCTTTGGAGG GGAGGCTAAC TGTGCCCTGA AGCTGAGCCT GGAATGCAGG  1080
GTCGACCTCC TCTTCCTGCT GGACAGCTCT GCGGGCACCA CTCTGGACGG CTTCCTGCGG  1140
GCCAAAGTCT TCGTGAAGCG GTTTGTGCGG GCCGTGCTGA GCGAGGACTC TCGGGCCCGA  1200
GTGGGTGTGG CCACATACAG CAGGGAGCTG CTGGTGGCGG TGCCTGTGGG GGAGTACCAG  1260
GATGTGCCTG ACCTGGTCTG GAGCCTCGAT GGCATTCCCT TCCGTGGTGG CCCCACCCTG  1320
ACGGGCAGTG CCTTGCGGCA GGCGGCAGAG CGTGGCTTCG GGAGCGCCAC CAGGACAGGC  1380
CAGGACCGGC CACGTAGAGT GGTGGTTTTG CTCACTGAGT CACACTCCGA GGATGAGGTT  1440
GCGGGCCCAG CGCGTCACGC AAGGGCGCGA GAGCTGCTCC TGCTGGGTGT AGGCAGTGAG  1500
GCCGTGCGGG CAGAGCTGGA GGAGATCACA GGCAGCCCAA AGCATGTGAT GGTCTACTCG  1560
GATCCTCAGG ATCTGTTCAA CCAAATCCCT GAGCTGCAGG GGAAGCTGTG CAGCCGGCAG  1620
CGGCCAGGGT GCCGGACACA AGCCCTGGAC CTCGTCTTCA TGTTGGACAC CTCTGCCTCA  1680
GTAGGGCCCG AGAATTTTGC TCAGATGCAG AGCTTTGTGA GAAGCTGTGC CCTCCAGTTT  1740
GAGGTGAACC CTGACGTGAC ACAGGTCGGC CTGGTGGTGT ATGGCAGCCA GGTGCAGACT  1800
GCCTTCGGGC TGGACACCAA ACCCACCCGG GCTGCGATGC TGCGGGCCAT TAGCCAGGCC  1860
CCCTACCTAG GTGGGGTGGG CTCAGCCGGC ACCGCCCTGC TGCACATCTA TGACAAAGTG  1920
ATGACCGTCC AGAGGGGTGC CCGGCCTGGT GTCCCCAAAG CTGTGGTGGT GCTCACAGGC  1980
GGGAGAGGCG CAGAGGATGC AGCCGTTCCT GCCCAGAAGC TGAGGAACAA TGGCATCTCT  2040
GTCTTGGTCG TGGGCGTGGG GCCTGTCCTA AGTGAGGGTC TGCGGAGGCT TGCAGGTCCC  2100
CGGGATTCCC TGATCCACGT GGCAGCTTAC GCCGACCTGC GGTACCACCA GGACGTGCTC  2160
ATTGAGTGGC TGTGTGGAGA AGCCAAGCAG CCAGTCAACC TCTGCAAACC CAGCCCGTGC  2220
ATGAATGAGG GCAGCTGCGT CCTGCAGAAT GGGAGCTACC GCTGCAAGTG TCGGGATGGC  2280
TGGGAGGGCC CCCACTGCGA GAACCGTGAG TGGAGCTCTT GCTCTGTATG TGTGAGCCAG  2340
GGATGGATTC TTGAGACGCC CCTGAGGCAC ATGGCTCCCG TGCAGGAGGG CAGCAGCCGT  2400
ACCCCTCCCA GCAACTACAG AGAAGGCCTG GGCACTGAAA TGGTGCCTAC CTTCTGGAAT  2460
GTCTGTGCCC CAGGTCCTTA G
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Seq ID NO: 441 Protein sequence
Protein Accession #: XP_061091.1

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1           11          21          31          41          51
|           |           |           |           |           |
MPNTSGTTRI EIWLLQEPPG HRALVAALLP VSPSPELALA PGYPPVPAAD DRFTLPMIGG    60
QMHGEKVDLW SLGVLCYEFL VGKPPFEANE VHVSKETIGK ISAASKMMWC SAAVDIMFLL   120
DGSNSVGKGS FERSKHFAIT VCDGLDISPE RVRVGAFQFS STPHLEFPLD SFSTQQEVKA   180
RIKRMVFKGG RTETELALKY LLHRGLPGGR NASVPQILII VTDGKSQGDV ALPSKQLKER   240
GVTVFAVGVR FPRWEELHAL ASEPRGQHVL LAEQVEDATN GLFSTLSSSA ICSSATPAGS   300
PELVFMERLM GISLIGPCDS QPCQNGGTCV PEGLDGYQCL CPLAFGGEAN CALKLSLECR   360
VDLLFLLDSS AGTTLDGFLR AKVFVKRFVR AVLSEDSRAR VGVATYSREL LVAVPVGEYQ   420
DVPDLVWSLD GIPFRGGPTL TGSALRQAAE RGFGSATRTG QDRPRRVVVL LTESHSEDEV   480
AGPARHARAR ELLLLGVGSE AVRAELEEIT GSPKHVMVYS DPQDLFNQIP ELQGKLCSRQ   540
RPGCRTQALD LVFMLDTSAS VGPENFAQMQ SFVRSCALQF EVNPDVTQVG LVVYGSQVQT   600
AFGLDTKPTR AAMLRAISQA PYLGGVGSAG TALLHIYDKV MTVQRGARPG VPKAVVVLTG   660
GRGAEDAAVP AQKLRNNGIS VLVVGVGPVL SEGLRRLAGP RDSLIHVAAY ADLRYHQDVL   720
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IEWLCGEAKQ PVNLCKPSPC MNEGSCVLQN GSYRCKCRDG WEGPHCENRE WSSCSVCVSQ 780
GWILETPLRH MAPVQEGSSR TPPSNYREGL GTEMVPTFWN VCAPGP

Seq ID NO: 442 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..2424

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AGCAAAATGA TGTGGTGCTC GGCTGCAGTG GACATCATGT TTCTGTTAGA TGGGTCTAAC  180
AGCGTCGGGA AAGGGAGCTT TGAAAGGTCC AAGCACTTTG CCATCACAGT CTGTGACGGT  240
CTGGACATCA GCCCCGAGAG GGTCAGAGTG GGAGCATTCC AGTTCAGTTC CACTCCTCAT  300
CTGGAATTCC CCTTGGATTC ATTTTCAACC CAACAGGAAG TGAAGGCAAG AATCAAGAGG  360
ATGGTTTTCA AAGGAGGGCG CACGGAGACG GAACTTGCTC TGAAATACCT TCTGCACAGA  420
GGGTTGCCTG GAGGCAGAAA TGCTTCTGTG CCCCAGATCC TCATCATCGT CACTGATGGG  480
AAGTCCCAGG GGGATGTGGC ACTGCCATCC AAGCAGCTGA AGGAAAGGGG TGTCACTGTG  540
TTTGCTGTGG GGGTCAGGTT TCCCAGGTGG GAGGAGCTGC ATGCACTGGC CAGCGAGCCT  600
AGAGGGCAGC ACGTGCTGTT GGCTGAGCAG GTGGAGGATG CCACCAACGG CCTCTTCAGC  660
ACCCTCAGCA GCTCGGCCAT CTGCTCCAGC GCCACGCCAG ACTGCAGGGT CGAGGCTCAC  720
CCCTGTGAGC ACAGGACGCT GGAGATGGTC CGGGAGTTCG CTGGCAATGC CCCATGCTGG  780
AGAGGATCGC GGCGGACCCT TGCGGTGCTG GCTGCACACT GTCCCTTCTA CAGCTGGAAG  840
AGAGTGTTCC TAACCCACCC TGCCACCTGC TACAGGACCA CCTGCCCAGG CCCCTGTGAC  900
TCGCAGCCCT GCCAGAATGG AGGCACATGT GTTCCAGAAG GACTGGACGG CTACCAGTGC  960
CTCTGCCCGC TGGCCTTTGG AGGGGAGGCT AACTGTGCCC TGAAGCTGAG CCTGGAATGC 1020
AGGGTCGACC TCCTCTTCCT GCTGGACAGC TCTGCGGGCA CCACTCTGGA CGGCTTCCTG 1080
CGGGCCAAAG TCTTCGTGAA GCGGTTTGTG CGGGCCGTGC TGAGCGAGGA CTCTCGGGCC 1140
CGAGTGGGTG TGGCCACATA CAGCAGGGAG CTGCTGGTGG CGGTGCCTGT GGGGGAGTAC 1200
CAGGATGTGC CTGACCTGGT CTGGAGCCTC GATGGCATTC CCTTCCGTGG TGGCCCCACC 1260
CTGACGGGCA GTGCCTTGCG GCAGGCGGCA GAGCGTGGCT TCGGGAGCGC CACCAGGACA 1320
GGCCAGGACC GGCCACGTAG AGTGGTGGTT TTGCTCACTG AGTCACACTC CGAGGATGAG 1380
GTTGCGGGCC CAGCGCGTCA CGCAAGGGCG CGAGAGCTGC TCCTGCTGGG TGTAGGCAGT 1440
GAGGCCGTGC GGGCAGAGCT GGAGGAGATC ACAGGCAGCC CAAAGCATGT GATGGTCTAC 1500
TCGGATCCTC AGGATCTGTT CAACCAAATC CCTGAGCTGC AGGGGAAGCT GTGCAGCCGG 1560
CAGCGGCCAG GGTGCCGGAC ACAAGCCCTG GACCTCGTCT TCATGTTGGA CACCTCTGCC 1620
TCAGTAGGGC CCGAGAATTT TGCTCAGATG CAGAGCTTTG TGAGAAGCTG TGCCCTCCAG 1680
TTTGAGGTGA ACCCTGACGT GACACAGGTC GGCCTGGTGG TGTATGGCAG CCAGGTGCAG 1740
ACTGCCTTCG GGCTGGACAC CAAACCCACC CGGGCTGCGA TGCTGCGGGC CATTAGCCAG 1800
GCCCCCTACC TAGGTGGGGT GGGCTCAGCC GGCACCGCCC TGCTGCACAT CTATGACAAA 1860
GTGATGACCG TCCAGAGGGG TGCCCGGCCT GGTGTCCCCA AAGCTGTGGT GGTGCTCACA 1920
GGCGGGAGAG GCGCAGAGGA TGCAGCCGTT CCTGCCCAGA AGCTGAGGAA CAATGGCATC 1980
TCTGTCTTGG TCGTGGGCGT GGGGCCTGTC CTAAGTGAGG GTCTGCGGAG GCTTGCAGGT 2040
CCCCGGGATT CCCTGATCCA CGTGGCAGCT TACGCCGACC TGCGGTACCA CCAGGACGTG 2100
CTCATTGAGT GGCTGTGTGG AGAAGCCAAG CAGCCAGTCA ACCTCTGCAA ACCCAGCCCG 2160
TGCATGAATG AGGGCAGCTG CGTCCTGCAG AATGGGAGCT ACCGCTGCAA GTGTCGGGAT 2220
GGCTGGGAGG GCCCCCACTG CGAGAACCGT GAGTGGAGCT CTTGCTCTGT ATGTGTGAGC 2280
CAGGGATGGA TTCTTGAGAC GCCCCTGAGG CACATGGCTC CCGTGCAGGA GGGCAGCAGC 2340
CGTACCCCTC CCAGCAACTA CAGAGAAGGC CTGGGCACTG AAATGGTGCC TACCTTCTGG 2400
AATGTCTGTG CCCCAGGTCC TTAG
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Seq ID NO: 443 Protein sequence
Protein Accession #: Eos sequence

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1          11         21         31         41         51
|          |          |          |          |          |
MPPFLLLEAV CVFLFSRVPP SLPLQEVHVS KETIGKISAA SKMMWCSAAV DIMFLLDGSN   60
SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR  120
MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIIVTDG KSQGDVALPS KQLKERGVTV  180
FAVGVRFPRW EELHALASEP RGQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH  240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCPGPCD  300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL  360
RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT  420
LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS  480
EAVRAELEEI TGSPKHVMVY SDPQDLFNQI PELQGKLCSR QRPGCRTQAL DLVFMLDTSA  540
SVGPENFAQM QSFVRSCALQ FEVNPDVTQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ  600
APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLT GGRGAEDAAV PAQKLRNNGI  660
SVLVVGVGPV LSEGLRRLAG PRDSLIHVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP  720
CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR EWSSCSVCVS QGWILETPLR HMAPVQEGSS  780
RTPPSNYREG LGTEMVPTFW NVCAPGP
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Seq ID NO: 444 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 89..2356

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GTCGCCGCTC TCCTTCCGTT ATATCAACAT GCCCCCTTTC CTGTTGCTGG AAGCCGTCTG  120
TGTTTTCCTG TTTTCCAGAG TGCCCCCATC TCTCCCTCTC CAGGAAGTCC ATGTAAGCAA  180
AGAAACCATC GGGAAGATTT CAGCTGCCAG CAAAATGATG TGGTGCTCGG CTGCAGTGGA  240
CATCATGTTT CTGTTAGATG GGTCTAACAG CGTCGGGAAA GGGAGCTTTG AAAGGTCCAA  300
GCACTTTGCC ATCACAGTCT GTGACGGTCT GGACATCAGC CCCGAGAGGG TCAGAGTGGG  360
AGCATTCCAG TTCAGTTCCA CTCCTCATCT GGAATTCCCC TTGGATTCAT TTTCAACCCA  420
ACAGGAAGTG AAGGCAAGAA TCAAGAGGAT GGTTTTCAAA GGAGGGCGCA CGGAGACGGA  480
ACTTGCTCTG AAATACCTTC TGCACAGAGG GTTGCCTGGA GGCAGAAATG CTTCTGTGCC  540
CCAGATCCTC ATCATCGTCA CTGATGGGAA GTCCCAGGGG GATGTGGCAC TGCCATCCAA  600
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GCAGCTGAAG GAAAGGGGTG TCACTGTGTT TGCTGTGGGG GTCAGGTTTC CCAGGTGGGA   660
GGAGCTGCAT GCACTGGCCA GCGAGCCTAG AGGGCAGCAC GTGCTGTTGG CTGAGCAGGT   720
GGAGGATGCC ACCAACGGCC TCTTCAGCAC CCTCAGCAGC TCGGCCATCT GCTCCAGCGC   780
CACGCCAGAC TGCAGGGTCG AGGCTCACCC CTGTGAGCAC AGGACGCTGG AGATGGTCCG   840
GGAGTTCGCT GGCAATGCCC CATGCTGGAG AGGATCGCGG CGGACCCTTG CGGTGCTGGC   900
TGCACACTGT CCCTTCTACA GCTGGAAGAG AGTGTTCCTA ACCCACCCTG CCACCTGCTA   960
CAGGACCACC TGCCCAGGCC CCTGTGACTC GCAGCCCTGC CAGAATGGAG GCACATGTGT  1020
TCCAGAAGGA CTGGACGGCT ACCAGTGCCT CTGCCCGCTG GCCTTTGGAG GGGAGGCTAA  1080
CTGTGCCCTG AAGCTGAGCC TGGAATGCAG GGTCGACCTC CTCTTCCTGC TGGACAGCTC  1140
TGCGGGCACC ACTCTGGACG GCTTCCTGCG GGCCAAAGTC TTCGTGAAGC GGTTTGTGCG  1200
GGCCGTGCTG AGCGAGGACT CTCGGGCCCG AGTGGGTGTG GCCACATACA GCAGGGAGCT  1260
GCTGGTGGCG GTGCCTGTGG GGGAGTACCA GGATGTGCCT GACCTGGTCT GGAGCCTCGA  1320
TGGCATTCCC TTCCGTGGTG GCCCCACCCT GACGGGCAGT GCCTTGCGGC AGGCGGCAGA  1380
GCGTGGCTTC GGGAGCGCCA CCAGGACAGG CCAGGACCGG CCACGTAGAG TGGTGGTTTT  1440
GCTCACTGAG TCACACTCCG AGGATGAGGT TGCGGGCCCA GCGCGTCACG CAAGGGCGCG  1500
AGAGCTGCTC CTGCTGGGTG TAGGCAGTGA GGCCGTGCGG GCAGAGCTGG AGGAGATCAC  1560
AGGCAGCCCA AAGCATGTGA TGGTCTACTC GGATCCTCAG GATCTGTTCA ACCAAATCCC  1620
TGAGCTGCAG GGGAAGCTGT GCAGCCGGCA GCGGCCAGGG TGCCGGACAC AAGCCCTGGA  1680
CCTCGTCTTC ATGTTGGACA CCTCTGCCTC AGTAGGGCCC GAGAATTTTG CTCAGATGCA  1740
GAGCTTTGTG AGAAGCTGTG CCCTCCAGTT TGAGGTGAAC CCTGACGTGA CACAGGTCGG  1800
CCTGGTGGTG TATGGCAGCC AGGTGCAGAC TGCCTTCGGG CTGGACACCA AACCCACCCG  1860
GGCTGCGATG CTGCGGGCCA TTAGCCAGGC CCCCTACCTA GGTGGGGTGG GCTCAGCCGG  1920
CACCGCCCTG CTGCACATCT ATGACAAAGT GATGACCGTC CAGAGGGGTG CCCGGCCTGG  1980
TGTCCCCAAA GCTGTGGTGG TGCTCACAGG CGGGAGAGGC GCAGAGGATG CAGCCGTTCC  2040
TGCCCAGAAG CTGAGGAACA ATGGCATCTC TGTCTTGGTC GTGGGCGTGG GGCCTGTCCT  2100
AAGTGAGGGT CTGCGGAGGC TTGCAGGTCC CCGGGATTCC CTGATCCACG TGGCAGCTTA  2160
CGCCGACCTG CGGTACCACC AGGACGTGCT CATTGAGTGG CTGTGTGGAG AAGCCAAGCA  2220
GCCAGTCAAC CTCTGCAAAC CCAGCCCGTG CATGAATGAG GGCAGCTGCG TCCTGCAGAA  2280
TGGGAGCTAC CGCTGCAAGT GTCGGGATGG CTGGGAGGGC CCCCACTGCG AGAACCGATT  2340
CTTGAGACGC CCCTGAGGCA CATGGCTCCC GTGCAGGAGG GCAGCAGCCG TACCCCTCCC  2400
AGCAACTACA GAGAAGGCCT GGGCACTGAA ATGGTGCCTA CCTTCTGGAA TGTCTGTGCC  2460
CCAGGTCCTT AGAATGTCTG CTTCCCGCCG TGGCCAGGAC CACTATTCTC ACTGAGGGAG  2520
GAGGATGTCC CAACTGCAGC CATGCTGCTT AGAGACAAGA AAGCAGCTGA TGTCACCCAC  2580
AAACGATGTT GTTGAAAAGT TTTGATGTGT AAGTAAATAC CCACTTTCTG TACCTGCTGT  2640
GCCTTGTTGA GGCTATGTCA TCTGCCACCT TTCCCTTGAG GATAAACAAG GGGTCCTGAA  2700
GACTTAAATT TAGCGGCCTG ACGTTCCTTT GCACACAATC AATGCTCGCC AGAATGTTGT  2760
TGACACAGTA ATGCCCAGCA GAGGCCTTTA CTAGAGCATC CTTTGGACGG
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Seq ID NO: 445 Protein sequence
Protein Accession #: Eos sequence

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1          11         21         31         41         51
|          |          |          |          |          |
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SVGKGSFERS KHFAITVCDG LDISPERVRV GAFQFSSTPH LEFPLDSFST QQEVKARIKR   120
MVFKGGRTET ELALKYLLHR GLPGGRNASV PQILIIVTDG KSQGDVALPS KQLKERGVTV   180
FAVGVRFPRW EELHALASEP RGQHVLLAEQ VEDATNGLFS TLSSSAICSS ATPDCRVEAH   240
PCEHRTLEMV REFAGNAPCW RGSRRTLAVL AAHCPFYSWK RVFLTHPATC YRTTCPGPCD   300
SQPCQNGGTC VPEGLDGYQC LCPLAFGGEA NCALKLSLEC RVDLLFLLDS SAGTTLDGFL   360
RAKVFVKRFV RAVLSEDSRA RVGVATYSRE LLVAVPVGEY QDVPDLVWSL DGIPFRGGPT   420
LTGSALRQAA ERGFGSATRT GQDRPRRVVV LLTESHSEDE VAGPARHARA RELLLLGVGS   480
EAVRAELEEI TGSPKHVMVY SDPQDLFNQI PELQGKLCSR QRPGCRTQAL DLVFMLDTSA   540
SVGPENFAQM QSFVRSCALQ FEVNPDVTQV GLVVYGSQVQ TAFGLDTKPT RAAMLRAISQ   600
APYLGGVGSA GTALLHIYDK VMTVQRGARP GVPKAVVVLT GGRGAEDAAV PAQKLRNNGI   660
SVLVVGVGPV LSEGLRRLAG PRDSLIHVAA YADLRYHQDV LIEWLCGEAK QPVNLCKPSP   720
CMNEGSCVLQ NGSYRCKCRD GWEGPHCENR FLRRP
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Seq ID NO: 446 DNA sequence
Nucleic Acid Accession #: NM_031942.1
Coding sequence: 145..1260

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CCGATCTGGG CACCCGCCAC CAGCATGGAC GCTCGCCGCG TGCCGCAGAA AGATCTCAGA   180
GTAAAGAAGA ACTTAAAGAA ATTCAGATAT GTGAAGTTGA TTTCCATGGA AACCTCGTCA   240
TCCTCTGATG ACAGTTGTGA CAGCTTTGCT TCTGATAATT TTGCAAACAC GAGGCTGCAG   300
TCAGTTCGGG AAGGCTGTAG GACCCGCAGC CAGTGCAGGC ACTCTGGACC TCTCAGGGTG   360
GCGATGAAGT TTCCAGCGCG GAGTACCAGG GGAGCAACCA ACAAAAAAGC AGAGTCCCGC   420
CAGCCCTCAG AGAATTCTGT GACTGATTCC AACTCCGATT CAGAAGATGA AAGTGGAATG   480
AATTTTTTGG AGAAAAGGGC TTTAAATATA AAGCAAAACA AAGCAATGCT TGCAAAACTC   540
ATGTCTGAAT TAGAAAGCTT CCCTGGCTCG TTCCGTGGAA GACATCCCCT CCCAGGCTCC   600
GACTCACAAT CAAGGAGACC GCGAAGGCGT ACATTCCCGG GTGTTGCTTC CAGGAGAAAC   660
CCTGAACGGA GAGCTCGTCC TCTTACCAGG TCAAGGTCCC GGATCCTCGG GTCCCTTGAC   720
GCTCTACCCA TGGAGGAGGA GGAGGAAGAG GATAAGTACA TGTTGGTGAG AAAGAGGAAG   780
ACCGTGGATG GCTACATGAA TGAAGATGAC CTGCCCAGAA GCCGTCGCTC CAGATCATCC   840
GTGACCCTTC CGCATATAAT TCGCCCAGTG GAAGAAATTA CAGAGGAGGA GTTGGAGAAC   900
GTCTGCAGCA ATTCTCGAGA GAAGATATAT AACCGTTCAC TGGGCTCTAC TTGTCATCAA   960
TGCCGTCAGA AGACTATTGA TACCAAAACA AACTGCAGAA ACCCAGACTG CTGGGGCGTT  1020
CGAGGCCAGT TCTGTGGCCC CTGCCTTCGA AACCGTTATG GTGAAGAGGT CAGGGATGCT  1080
CTGCTGGATC CGAACTGGCA TTGCCCGCCT TGTCGAGGAA TCTGCAACTG CAGTTTCTGC  1140
CGGCAGCGAG ATGGACGGTG TGCGACTGGG GTCCTTGTGT ATTTAGCCAA ATATCATGGC  1200
TTTGGGAATG TGCATGCCTA CTTGAAAAGC CTGAAACAGG AATTTGAAAT GCAAGCATAA  1260
TATCTGGAAA ATTTGCTGCC TGCCTTCTAC TTCTCAAATC TTTCTTGTAA AAGTTTCCAA  1320
TTTTTTCACT GAAACCTGAG TTAAAAATCT TGATGATCAG CCTGTTTCAT AAGAAACTCC  1380
AATCAAGTTA ATCTTAGCAG ACATGTGTTT CTGGAGCATC ACAGAAGGTA TATTGCTAGT  1440
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TATGAAAGCA TATTTTATTT ACTTGGTGTT GAAATAGCCC TCATAAAACC TAAGCACTTG  1620
GAAACACAAT AATAGTATTA ACTAACTAGA TCTATTGAAT TTCAGAGAAG AGCCTTCTAA  1680
CTTGTTTACA CAAAAACGAG TATGATTTAG CACTCATACT AGTTGAAATT TTTAATAGAA  1740
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AAGGTTGGTG GGCAATGTAA TACTTAATTA AAATAATGAT GGAAGAGCTA TCTGGAGATT  1980
ATGAGTAAGC TGATTTGAAT TTTCAGTATA AAACTTTAGT ATAATTGTAG TTTGCAAAGT  2040
TTATTTCAGT TCACATGTAA GGTATTGCAA ATAAATTCTT GGACAATTTT GTATGGAAAC  2100
TTGATATTAA AAACTAGTCT GTGGTTCTTT GCAGTTTCTT GTAAATTTAT AAACCAGGCA  2160
CAAGGTTCAA GTTTAGATTT TAAGCACTTT TATAACAATG ATAAGTGCCT TTTTGGAGAT  2220
GTAACTTTTA GCAGTTTGTT AACCTGACAT CTCTGCCAGT CTAGTTTCTG GGCAGGTTTC  2280
CTGTGTCAGT ATTCCCCCTC CTCTTTGCAT TAATCAAGGT ATTTGGTAGA GGTGGAATCT  2340
AAGTGTTTGT ATGTCCAATT TACTTGCATA TGTAAACCAT TGCTGTGCCA TTCAATGTTT  2400
GATGCATAAT TGGACCTTGA ATCGATAAGT GTAAATACAG CTTTTGATCT GTAATGCTTT  2460
TATACAAAAG TTTATTTTAA TAATAAAATG TTTGTTCTAA AAAAAAAAAA
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Seq ID NO: 447 Protein sequence
Protein Accession #: NP_114148.1

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TRSRSRILGS LDALPMEEEE EEDKYMLVRK RKTVDGYMNE DDLPRSRRSR SSVTLPHIIR   240
PVEEITEEEL ENVCSNSREK IYNRSLGSTC HQCRQKTIDT KTNCRNPDCW GVRGQFCGPC   300
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Seq ID NO: 448 DNA sequence
Nucleic Acid Accession #: NM_019894
Coding sequence: 1..1314

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GACATACTGC TGCAGGCGTC AGTCCAGGTC ATTGACAGCA CACGGTGCAA TGCAGACGAT  1080
GCGTACCAGG GGGAAGTCAC CGAGAAGATG ATGTGTGCAG GCATCCCGGA AGGGGGTGTG  1140
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GTGGGCATCG TTAGCTGGGG CTATGGCTGC GGGGGCCCGA GCACCCCAGG AGTATACACC  1260
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Seq ID NO: 449 Protein sequence
Protein Accession #: NP_063947.1

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GPCLSGSLVS LHCLACGKSL KTPRVVGGEE ASVDSWPWQV SIQYDKQHVC GGSILDPHWV   240
LTAAHCFRKH TDVFNWKVRA GSDKLGSFPS LAVAKIIIIE FNPMYPKDND IALMKLQFPL   300
TFSGTVRPIC LPFFDEELTP ATPLWIIGWG FTKQNGGKMS DILLQASVQV IDSTRCNADD   360
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Seq ID NO: 450 DNA sequence
Nucleic Acid Accession #: XM_051860.2
Coding sequence: 52..3042

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CCCAAACTCA CAGTCACCAT TGACACCAAT GTGAACAGCA CCATTCTGAA CTTGGAGGAT   240
AATGTACAGT CATGGAAACC TGGAGATACC CTGGTCATTG CCAGTACTGA TTACTCCATG   300
TACCAGGCAG AAGAGTTCCA GGTGCTTCCC TGCAGATCCT GCGCCCCCAA CCAGGTCAAA   360
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Seq ID NO: 451 Protein sequence
Protein Accession #: XP_051860.2

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Seq ID NO: 452 DNA sequence
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Seq ID NO: 453 Protein sequence
Protein Accession #: Eos sequence

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GKTLLLTSSA TVYSIHISEG GKLVIKDHDE PIVLRTRHIL IDNGGELHAG SALCPFQGNF  120
TIILYGRADE GIQPDPYYGL KYIGVGKGGA LELHGQKKLS WTFLNKTLHP GGMAEGGYFF  180
ERSWGHRGVI VHVIDPKSGT VIHSDRFDTY RSKKESERLV QYLNAVPDGR ILSVAVNDEG  240
SRNLDDMARK AMTKLGSKHF LHLGFRHPWS FLTVKGNPSS SVEDHIEYHG HRGSAAARVF  300
KLFQTEHGEY FNVSLSSEWV QDVEWTEWFD HDKVSQTKGG EKISDLWKAH PGKICNRPID  360
IQATTMDGVN LSTEVVYKKG QDYRFACYDR GRACRSYRVR FLCGKPVRPK LTVTIDTNVN  420
STILNLEDNV QSWKPGDTLV IASTDYSMYQ AEEFQVLPCR SCAPNQVKVA GKPMYLHIGE  480
EIDGVDMRAE VGLLSRNIIV MGEMEDKCYP YRNHICNFFD FDTFGGHIKF ALGFKAAHLE  540
GTELKHMGQQ LVGQYPIHFH LAGDVDERGG YDPPTYIRDL SIHHTFSRCV TVHGSNGLLI  600
KDVVGYNSLG HCFFTEDGPE ERNTFDHCLG LLVKSGTLLP SDRDSKMCKM ITEDSYPGYI  660
PKPRQDCNAV STFWMANPNN NLINCAAAGS EETGFWFIFH HVPTGPSVGM YSPGYSEHIP  720
LGKFYNNRAH SNYRAGMIID NGVKTTEASA KDKRPFLSII SARYSPHQDA DPLKPREPAI  780
IRHFIAYKNQ DHGAWLRGGD VWLDSCHFRG EAQEGFLLTG MKAGGILLGG DEAASGMAQG  840
FSPPCRCLLK LVTTGSPFAH VSLAHS
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Seq ID NO: 454 DNA sequence
Nucleic Acid Accession #: NM_013282.2
Coding sequence: 85..2466

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CAGGAGCTGT TCCACGTGGA GCCAGGCCTG CAGAGGCTGT TCTACAGGGG CAAACAGATG  240
GAGGACGGCC ATACCCTCTT CGACTACGAG GTCCGCCTGA ATGACACCAT CCAGCTCCTG  300
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ACCGACTCCG GCTGCTGCCT GGGCCAGAGT GAGTCAGACA AGTCCTCCAC CCACGGCGAG  420
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GGGCTGTACA AGGTCAATGA GTACGTCGAT GCTCGGGACA CGAACATGGG GGCGTGGTTT  540
GAGGCGCAGG TGGTCAGGGT GACGCGGAAG GCCCCCTCCC GGGACGAGCC CTGCAGCTCC  600
ACGTCCAGGC CGGCGCTGGA GGAGGACGTC ATTTACCACG TGAAATACGA CGACTACCCG  660
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CGGGAACTCT ACGCCAACGT GGTGCTGGGG GATGATTCTC TGAACGACTG TCGGATCATC  900
TTCGTGGACG AAGTCTTCAA GATTGAGCGG CCGGGTGAAG GGAGCCCCAT GGTTGACAAC  960
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TGCCGGGTCT GCGCCTGCCA CCTGTGCGGG GGCCGGCAGG ACCCCGACAA GCAGCTCATG 1080
TGCGATGAGT GCGACATGGC CTTCCACATC TACTGCCTGG ACCCGCCCCT CAGCAGTGTT 1140
CCCAGCGAGG ACGAGTGGTA CTGCCCTGAG TGCCGGAATG ATGCCAGCGA GGTGGTACTG 1200
GCGGGAGAGC GGCTGAGAGA GAGCAAGAAG AAGGCGAAGA TGGCCTCGGC CACATCGTCC 1260
TCACAGCGGG ACTGGGGCAA GGGCATGGCC TGTGTGGGCC GCACCAAGGA ATGTACCATC 1320
GTCCCGTCCA ACCACTACGG ACCCATCCCG GGGATCCCCG TGGGCACCAT GTGGCGGTTC 1380
CGAGTCCAGG TCAGCGAGTC GGGTGTCCAT CGGCCCCACG TGGCTGGCAT ACACGGCCGG 1440
AGCAACGACG GAGCGTACTC CCTAGTCCTG GCGGGGGGCT ATGAGGATGA CGTGGACCAT 1500
GGGAATTTTT TCACATACAC GGGTAGTGGT GGTCGAGATC TTTCCGGCAA CAAGAGGACC 1560
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GTCAGGGTGG TGCGCAATGT CAAGGGTGGC AAGAATAGCA AGTACGCCCC CGCTGAGGGC 1740
AACCGCTACG ATGGCATCTA CAAGGTTGTG AAATACTGGC CCGAGAAGGG GAAGTCCGGG 1800
TTTCTCGTGT GGCGCTACCT TCTGCGGAGG GACGATGATG AGCCTGGCCC TTGGACGAAG 1860
GAGGGGAAGG ACCGGATCAA GAAGCTGGGG CTGACCATGC AGTATCCAGA AGGCTACCTG 1920
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GAAGCCCTGG CCAACCGAGA GCGAGAGAAG GAGAACAGCA AGAGGGAGGA GGAGGAGCAG  1980
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CCCTACAGTC TCACGGCCCA GCAGAGCAGC CTCATCAGAG AGGACAAGAG CAACGCCAAG  2160
CTGTGGAATG AGGTCCTGGC GTCACTCAAG GACCGGCCGG CGAGCGGCAG CCCGTTCCAG  2220
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CGGCCCATCA CGACCGTGTG CCAGCACAAC GTGTGCAAGG ACTGCCTGGA CAGATCCTTT  2340
CGGGCACAGG TGTTCAGCTG CCCTGCCTGC CGCTACGACC TGGGCCGCAG CTATGCCATG  2400
CAGGTGAACC AGCCTCTGCA GACCGTCCTC AACCAGCTCT TCCCCGGCTA CGGCAATGGC  2460
CGGTGATCTC CAAGCACTTC TCGACAGGCG TTTTGCTGAA AACGTGTCGG AGGGCTCGTT  2520
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CCTAAAAAGG TTTGTCTTCC TTTTTTTTTA TTTTTATTTT TCAAATCTAT ACATTTTCAG  2640
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CAACTCTTTA AGAAGGCGAC AGGATCAGTC CTTCTCTAGG GTTCTGGCCC CCAAGGTCAG  2880
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TGGCCCGTGG CAGCCCGTGG CATGGCGTGG CTCAGCTGTC TGTTGAAGTT GTTGCAAGGA  3000
AAAGAGGAAA CATCTCGGGC CTAGTTCAAA CCTTTGCCTC AAAGCCATCC CCCACCAGAC  3060
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CACGCAGAAA TGGCCTCAAG GGGACTCTGC TCCACGTGGG GCCAGGCGTG TGACTGACGC  3180
TGTCCGACGA AGGCGGCCAC GGACGGACGC CAGCACACGA AGTCACGTGC AAGTGCCTTT  3240
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GTCAACCAGA TTCTAGAAAC TGCGGTCATC CAGTTCTTCC TGACACCGGA TGGGTGCTTG  3360
GGAACCGTTT GAGCCTTATA GATCATTTAC ATTCAATTTT TTTAACTCAG CAAGTGAGAA  3420
CTTACAAGAG GGTTTTTTTT TAATTTTTTT TTCTCTTAAT GAACACATTT TCTAAATGAA  3480
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TTGTTTTTGT ATTTTTTTTC TTTTGAAAGG GTTTGTTAAT TTTTCTAATT TTACCAAAGT  3600
TTGCAGCCTA TACCTCAATA AAACAGGGAT ATTTTAAATC ACATACCTGC AGACAAACTG  3660
GAGCAATGTT ATTTTTAAAG GGTTTTTTTC ACCTCCTTAT TCTTAGATTA TTAATGTATT  3720
AGGGAAGAAT GAGACAATTT TGTGTAGGCT TTTTCTAAAG TCCAGTACTT TGTCCAGATT  3780
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Seq ID NO: 455 Protein sequence
Protein Accession #: NP_037414.2

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YEVRLNDTIQ LLVRQSLVLP HSTKERDSEL SDTDSGCCLG QSESDKSSTH GEAAAETDSR   120
PADEDMWDET ELGLYKVNEY VDARDTNMGA WFEAQVVRVT RKAPSRDEPC SSTSRPALEE   180
DVIYHVKYDD YPENGVVQMN SRDVRARART IIKWQDLEVG QVVMLNYNPD NPKERGFWYD   240
AEISRKRETR TARELYANVV LGDDSLNDCR IIFVDEVFKI ERPGEGSPMV DNPMRRKSGP   300
SCKHCKDDVN RLCRVCACHL CGGRQDPDKQ LMCDECDMAF HIYCLDPPLS SVPSEDEWYC   360
PECRNDASEV VLAGERLRES KKKAKMASAT SSSQRDWGKG MACVGRTKEC TIVPSNHYGP   420
IPGIPVGTMW RFRVQVSESG VHRPHVAGIH GRSNDGAYSL VLAGGYEDDV DHGNFFTYTG   480
SGGRDLSGNK RTAEQSCDQK LTNTNRALAL NCFAPINDQE GAEAKDWRSG KPVRVVRNVK   540
GGKNSKYAPA EGNRYDGIYK VVKYWPEKGK SGFLVWRYLL RRDDDEPGPW TKEGKDRIKK   600
LGLTMQYPEG YLEALANRER EKENSKREEE EQQEGGFASP RTGKGKWKRK SAGGGPSRAG   660
SPRRTSKKTK VEPYSLTAQQ SSLIREDKSN AKLWNEVLAS LKDRPASGSP FQLFLSKVEE   720
TFQCICCQEL VFRPITTVCQ HNVCKDCLDR SFRAQVFSCP ACRYDLGRSY AMQVNQPLQT
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Seq ID NO: 456 DNA sequence
Nucleic Acid Accession #: NM_001200.1
Coding sequence: 325..1514

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TGCCCGACAC TGAGACGCTG TTCCCAGCGT GAAAAGAGAG ACTGCGCGGC CGGCACCCGG   180
GAGAAGGAGG AGGCAAAGAA AAGGAACGGA CATTCGGTCC TTGCGCCAGG TCCTTTGACC   240
AGAGTTTTTC CATGTGGACG CTCTTTCAAT GGACGTGTCC CCGCGTGCTT CTTAGACGGA   300
CTGCGGTCTC CTAAAGGTCG ACCATGGTGG CCGGGACCCG CTGTCTTCTA GCGTTGCTGC   360
TTCCCCAGGT CCTCCTGGGC GGCGCGGCTG GCCTCGTTCC GGAGCTGGGC CGCAGGAAGT   420
TCGCGGCGGC GTCGTCGGGC CGCCCCTCAT CCCAGCCCTC TGACGAGGTC CTGAGCGAGT   480
TCGAGTTGCG GCTGCTCAGC ATGTTCGGCC TGAAACAGAG ACCCACCCCC AGCAGGGACG   540
CCGTGGTGCC CCCCTACATG CTAGACCTGT ATCGCAGGCA CTCAGGTCAG CCGGGCTCAC   600
CCGCCCCAGA CCACCGGTTG GAGAGGGCAG CCAGCCGAGC CAACACTGTG CGCAGCTTCC   660
ACCATGAAGA ATCTTTGGAA GAACTACCAG AAACGAGTGG GAAAACAACC CGGAGATTCT   720
TCTTTAATTT AAGTTCTATC CCCACGGAGG AGTTTATCAC CTCAGCAGAG CTTCAGGTTT   780
TCCGAGAACA GATGCAAGAT GCTTTAGGAA ACAATAGCAG TTTCCATCAC CGAATTAATA   840
TTTATGAAAT CATAAAACCT GCAACAGCCA ACTCGAAATT CCCCGTGACC AGACTTTTGG   900
ACACCAGGTT GGTGAATCAG AATGCAAGCA GGTGGGAAAG TTTTGATGTC ACCCCCGCTG   960
TGATGCGGTG GACTGCACAG GGACACGCCA ACCATGGATT CGTGGTGGAA GTGGCCCACT  1020
TGGAGGAGAA ACAAGGTGTC TCCAAGAGAC ATGTTAGGAT AAGCAGGTCT TTGCACCAAG  1080
ATGAACACAG CTGGTCACAG ATAAGGCCAT TGCTAGTAAC TTTTGGCCAT GATGGAAAAG  1140
GGCATCCTCT CCACAAAAGA GAAAAACGTC AAGCCAAACA CAAACAGCGG AAACGCCTTA  1200
AGTCCAGCTG TAAGAGACAC CCTTTGTACG TGGACTTCAG TGACGTGGGG TGGAATGACT  1260
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TGGCTGATCA TCTGAACTCC ACTAATCATG CCATTGTTCA GACGTTGGTC AACTCTGTTA  1380
ACTCTAAGAT TCCTAAGGCA TGCTGTGTCC CGACAGAACT CAGTGCTATC TCGATGCTGT  1440
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GTGGGTGTCG CTAGTACAGC AAAATTAAAT ACATAAATAT ATATATA
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Seq ID NO: 457 Protein sequence
Protein Accession #: NP_001191.1

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FGLKQRPTPS RDAVVPPYML DLYRRHSGQP GSPAPDHRLE RAASRANTVR SFHHEESLEE   120
LPETSGKTTR RFFFNLSSIP TEEFITSAEL QVFREQMQDA LGNNSSFHHR INIYEIIKPA   180
TANSKFPVTR LLDT

Seq ID NO: 458 DNA sequence
Nucleic Acid Accession #:  NM_001999.2
Coding sequence: 1..8736

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CAGCCGCCGC CGCAACAGGT TCGGTCCGCT ACAGCAGGCT CTGAAGGCGG GTTTCTAGCG   180
CCCGAGTATC GCGAGGAGGG TGCCGCAGTG GCCAGCCGCG TCCGCCGGCG AGGACAGCAG   240
GACGTGCTCC GAGGGCCCAA CGTGTGCGGC TCCAGATTCC ACTCCTACTG CTGCCCTGGA   300
TGGAAGACGC TCCCTGGAGG AAACCAGTGC ATTGTCCCGA TTTGTAGAAA TAGTTGTGGA   360
GATGGATTTT GTTCCCGTCC TAACATGTGT ACTTGTTCCA GTGGGCAAAT ATCATCAACC   420
TGTGGATCAA AATCAATTCA GCAGTGCAGT GTGAGATGCA TGAATGGTGG GACCTGTGCA   480
GATGACCACT GCCAGTGCCA GAAAGGATAT ATTGGAACTT ATTGTGGACA ACCTGTCTGT   540
GAAAATGGAT GTCAGAATGG TGGACGTTGC ATCGCCCAAC CGTGTGCTTG TGTTTATGGG   600
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ACCACTGGAC GGGCGTGGGG CCATCCCTGT GAGATGTGTC CAGCCCAGCC TCAGCCCTGC   780
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CCTGGAGGCA ATGGCTTTTC TCCTGGCGTT GGGGGAGCCG GTGTGGGGGC CGGGGGACAG  1440
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AATGCTCAGT GTGTAAATAC CCCGGGCTCA TACCGCTGTG CCTGCTCCGA AGGTTTCACT  4320
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Seq ID NO: 459 Protein sequence
Protein Accession #: NP_001990.1

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ENGCQNGGRC IAQPCACVYG FTGPQCERDY RTGPCFTQVN NQMCQGQLTG IVCTKTLCCA   240
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Seq ID NO: 460 DNA sequence
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Seq ID NO: 463 Protein sequence
Protein Accession #: Eos sequence

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Seq ID NO: 464 DNA sequence
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Seq ID NO: 465 Protein sequence
Protein Accession #: BAB21525.1

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Seq ID NO: 466 DNA sequence
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GTTTGGAGAA AGTGTCACAG AGCCAGGCCA GACCTTTGTG GATGCAGAGT TTGATGGAAT   600
TCTGGGCCTG GGATACCCCT CCTTGGCTGT GGGAGGAGTG ACTCCAGTAT TTGACAACAT   660
GATGGCTCAG AACCTGGTGG ACTTGCCGAT GTTTTCTGTC TACATGAGCA GTAACCCAGA   720
AGGTGGTGCG GGGAGCGAGC TGATTTTTGG AGGCTACGAC CACTCCCATT TCTCTGGGAG   780
CCTGAATTGG GTCCCAGTCA CCAAGCAAGC TTACTGGCAG ATTGCACTGG ATAACATCCA   840
GGTGGGAGGC ACTGTTATGT TCTGCTCCGA GGGCTGCCAG GCCATTGTGG ACACAGGGAC   900
TTCCCTCATC ACTGGCCCTT CCGACAAGAT TAAGCAGCTG CAAAACGCCA TTGGGGCAGC   960
CCCCGTGGAT GGAGAATATG CTGTGGAGTG TGCCAACCTT AACGTCATGC CGGATGTCAC  1020
CTTCACCATT AACGGAGTCC CCTATACCCT CAGCCCAACT GCCTACACCC TACTGGACTT  1080
CGTGGATGGA ATGCAGTTCT GCAGCAGTGG CTTTCAAGGA CTTGACATCC ACCCTCCAGC  1140
TGGGCCCCTC TGGATCCTGG GGGATGTCTT CATTCGACAG TTTTACTCAG TCTTTGACCG  1200
TGGGAATAAC CGTGTGGGAC TGGCCCCAGC AGTCCCCTAA GGAGGGGCCT TGTGTCTGTG  1260
CCTGCCTGTC TGACAGACCT TGAATATGTT AGGCTGGGGC ATTCTTTACA CCTACAAAAA  1320
GTTATTTTCC AGAGAATGTA GCTGTTTCCA GGGTTGCAAC TTGAATTAAG ACCAAACAGA  1380
ACATGAGAAT ACACACACAC ACACACATAT ACACACACAC ACACTTCACA CATACACACC  1440
ACTCCCACCA CCGTCATGAT GGAGGAATTA CGTTATACAT TCATATTTTG TATTGATTTT  1500
TGATTATGAA AATCAAAAAT TTTCACATTT GATTATGAAA ATCTCCAAAC ATATGCACAA  1560
GCAGAGATCA TGGTATAATA AATCCCTTTG CAACTCCACT CAGCCCTGAC AACCCATCCA  1620
CACACGGCCA GGCCTGTTTA TCTACACTGC TGCCCACTCC TCTCTCCAGC TCCACATGCT  1680
GTACCTGGAT CATTCTGAAG CAAATTCCGA GCATTACATC ATTTTGTCCA TAAATATTTC  1740
TAACATCCTT AAATATACAA TCGGAATTCA AGCATCTCCC ATTGTCCCAC AAATGTTTGG  1800
CTGTTTTTGT AGTTGGATTG TTTGTATTAG GATTCAAGCA AGGCCCATAT ATTGCATTTA  1860
TTTGAAATGT CTGTAAGTCT CTTTCCATCT ACAGAGTTTA GCACATTTGA ACGTTGCTGG  1920
TTGAAATCCC GAGGTGTCAT TTGACATGGT TCTCTGAACT TATCTTTCCT ATAAAATGGT  1980
AGTTAGATCT GGAGGTCTGA TTTTGTGGCA AAAATACTTC CTAGGTGGTG CTGGGTACTT  2040
CTTGTTGCAT CCTGTCAGGA GGCAGATAAT GCTGGTGCCT CTCTATTGGT AATGTTAAGA  2100
CTGCTGGGTG GGTTTGGAGT TCTTGGCTTT AATCATTCAT TACAAAGTTC AGCATTTT
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Seq ID NO: 467 Protein sequence
Protein Accession #: NP_001901.1

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1          11         21         31         41         51
|          |          |          |          |          |
MKTLLLLLLV LLELGEAQGS LHRVPLRRHP SLKKKLRARS QLSEFWKSHN LDMIQFTESC    60
SMDQSAKEPL INYLDMEYFG TISIGSPPQN FTVIFDTGSS NLWVPSVYCT SPACKTHSRF   120
QPSQSSTYSQ PGQSFSIQYG TGSLSGIIGA DQVSVEGLTV VGQQFGESVT EPGQTFVDAE   180
FDGILGLGYP SLAVGGVTPV FDNMMAQNLV DLPMFSVYMS SNPEGGAGSE LIFGGYDHSH   240
FSGSLNWVPV TKQAYWQIAL DNIQVGGTVM FCSEGCQAIV DTGTSLITGP SDKIKQLQNA   300
IGAAPVDGEY AVECANLNVM PDVTFTINGV PYTLSPTAYT LLDFVDGMQF CSSGFQGLDI   360
HPPAGPLWIL GDVFIRQFYS VFDRGNNRVG LAPAVP
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Seq ID NO: 468 DNA sequence
Nucleic Acid Accession #: NM_018058.1
Coding sequence: 319..1575

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GACGGCCGGG AGGAGATCTA CTTCCTCAAC ACCAATAATG CCTTCTCGGG GGTGGCCACG   120
TACACCGACA AGTTGTTCAA GTTCCGCAAT AACCGGTGGG AAGACATCCT GAGCGATGAG   180
GTCAACGTGG CCGGTGGTGT GGCCAGCCTC TTTGCCGGAC GCTCTGTGGC CTGTGTGGAC   240
AGAAAGGGCT CTGGACGCTA CTCTATCTAC ATTGCCAATT ACGCCTACGG TAATGTGGGC   300
CCTGATGCCC TCATTGAAAT GGACCCTGAG GCCAGTGACC TCTCCCGGGG CATTCTGGCG   360
CTCAGAGATG TGGCTGCTGA GGCTGGGGTC AGCAAATATA CAGGGGGCCG AGGCGTCAGC   420
GTGGGCCCCA TCCTCAGCAG CAGTGCCTCG GATATCTTCT GCGACAATGA GAATGGGCCT   480
AACTTCCTTT TCCACAACCG GGGCGATGGC ACCTTTGTGG ACGCTGCGGC CAGTGCTGGT   540
GTGGACGACC CCCACCAGCA TGGGCGAGGT GTCGCCCTGG CTGACTTCAA CCGTGATGGC   600
AAAGTGGACA TCGTCTATGG CAACTGGAAT GGCCCCCACC GCCTCTATCT GCAAATGAGC   660
ACCCATGGGA AGGTCCGCTT CCGGGACATC GCCTCACCCA AGTTCTCCAT GCCCTCCCCT   720
GTCCGCACGG TCATCACCGC CGACTTTGAC AATGACCAGG AGCTGGAGAT CTTCTTCAAC   780
AACATTGCCT ACCGCAGCTC CTCAGCCAAC CGCCTCTTCC GCGTCATCCG TAGAGAGCAC   840
GGAGACCCCC TCATCGAGGA GCTCAATCCC GGCGACGCCT TGGAGCCTGA GGGCCGGGGC   900
ACAGGGGGTG TGGTGACCGA CTTCGACGGA GACGGGATGC TGGACCTCAT CTTGTCCCAT   960
GGAGAGTCCA TGGCTCAGCC GCTGTCCGTC TTCCGGGGCA ATCAGGGCTT CAACAACAAC  1020
TGGCTGCGAG TGGTGCCACG CACCCGGGTT GGGGCCTTTG CCAGGGGAGC TAAGGTCGTG  1080
CTCTACACCA AGAAGAGTGG GGCCCACCTG AGGATCATCG ACGGGGGCTC AGGCTACCTG  1140
TGTGAGATGG AGCCCGTGGC ACACTTTGGC CTGGGGAAGG ATGAAGCCAG CAGTGTGGAG  1200
GTGACGTGGC CAGATGGCAA GATGGTGAGC CGGAACGTGG CCAGCGGGGA GATGAACTCA  1260
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GTGCTGGAGA TCCTCTACCC CCGGGATGAG GACACACTTC AGGACCCAGC CCCACTGGAG  1320
ACACCAATGA ATGCATCCAG TTCCCATTCG TGTGCCCTCG AGACAAGCCC GTATGTGTCA  1380
ACACCTATGG AAGCTACAGG TGCCGGACCA ACAAGAAGTG CAGTCGGGGC TACGAGCCCA  1440
ACGAGGATGG CACAGCCTGC GTGGGGACTC TCGGCCAGTC ACCGGGCCCC CGCCCCACCA  1500
CCCCCACCGC TGCTGCTGCC ACTGCCGCTG CTGCTGCCGC TGCTGGAGCT GCCACTGCTG  1560
CACCGGTCCT CGTAGATGGA GATCTCAATC TGGGGTCGGT GGTTAAGGAG AGCTGCGAGC  1620
CCAGCTGCTG AGCAGGGGTG GGACATGAAC CAGCGGATGG AGTCCAGCAG GGGAGTGGGA  1680
AAGTGGGCTT GTGCTGCTGC CTAGACAGTA GGGATGTAAA GGCCTGGGAG CTAGACCCTC  1740
CCCAAGCCCA TCCATGCACA TTACTTAGCT AACAATTAGG GAGACTCGTA AGGCCAGGCC  1800
CTGTGCTGGG CACATAGCTG TGATCACAGC AGACAGGGTC GCTGCCCTGA TGGCGCTTAC  1860
ATTCCAGTGG GTCTAATGAC CATATCTTAG GACACAGATG TGCCCAGGGA GGTGGTGTCA  1920
CTGCACAGGA AGTATGAGGA CTTTAGTGTC CTGAGTTCAA ATCCTGATTC AGGAACTCAC  1980
AAAGCTATGT GACCTTACAC CAGTCACTTA ACTTGTTAGC CATCCATTAT CGCATCTGCA  2040
AAATGGGGAT TAAGAATAGA ATCTTGGGGT TAGTGTGGAG ATTAGATTAA ATGTATGTAA  2100
GACACTTGGC ACAAAACCTG GCACATAGTA AAGGCTCAAT AAAAACAAGT GCCTCTCACT  2160
GGGCTTTGTC AACACGTG
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Seq ID NO: 469 Protein sequence
Protein Accession #: NP_060528.1

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1           11          21          31          41          51
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MDPEASDLSR GILALRDVAA EAGVSKYTGG RGVSVGPILS SSASDIFCDN ENGPNFLFHN   60
RGDGTFVDAA ASAGVDDPHQ HGRGVALADF NRDGKVDIVY GNWNGPHRLY LQMSTHGKVR  120
FRDIASPKFS MPSPVRTVIT ADFDNDQELE IFFNNIAYRS SSANRLFRVI RREHGDPLIE  180
ELNPGDALEP EGRGTGGVVT DFDGDGMLDL ILSHGESMAQ PLSVFRGNQG FNNNWLRVVP  240
RTRVGAFARG AKVVLYTKKS GAHLRIIDGG SGYLCEMEPV AHFGLGKDEA SSVEVTWPDG  300
KMVSRNVASG EMNSVLEILY PRDEDTLQDP APLETPMNAS SSHSCALETS PYVSTPMEAT  360
GAGPTRSAVG ATSPTRMAQP AWGLSASHRA PAPPPPPLLL PLPLLLPLLE LPLLHRSS
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Seq ID NO: 470 DNA sequence
Nucleic Acid Accession #: AJ279016
Coding sequence: 1..1962

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CAGCGGGCTG AACCCATGTT CACTGCAGTC ACCAACTCAG TTCTGCCTCC TGACTATGAC   120
AGTAATCCCA CCCAGCTCAA CTATGGTGTG GCAGTTACTG ATGTGGACCA TGATGGGGAC   180
TTTGAGATCG TCGTGGCGGG GTACAATGGA CCCAACCTGG TTCTGAAGTA TGACCGGGCC   240
CAGAAGCGGC TGGTGAACAT CGCGGTCGAT GAGCGCAGCT CACCCTACTA CGCGCTGCGG   300
GACCGGCAGG GGAACGCCAT CGGGGTCACA GCCTGCGACA TCGACGGGGA CGGCCGGGAG   360
GAGATCTACT TCCTCAACAC CAATAATGCC TTCTCGGGGG TGGCCACGTA CACCGACAAG   420
TTGTTCAAGT TCCGCAATAA CCGGTGGGAA GACATCCTGA GCGATGAGGT CAACGTGGCC   480
CGTGGTGTGG CCAGCCTCTT TGCCGGACGC TCTGTGGCCT GTGTGGACAG AAAGGGCTCT   540
GGACGCTACT CTATCTACAT TGCCAATTAC GCCTACGGTA ATGTGGGCCC TGATGCCCTC   600
ATTGAAATGG ACCCTGAGGC CAGTGACCTC TCCCGGGGCA TTCTGGCGCT CAGAGATGTG   660
GCTGCTGAGG CTGGGGTCAG CAAATATACA GGGGGCCGAG GCGTCAGCGT GGGCCCCATC   720
CTCAGCAGCA GTGCCTCGGA TATCTTCTGC GACAATGAGA ATGGGCCTAA CTTCCTTTTC   780
CACAACCGGG GCGATGGCAC CTTTGTGGAC GCTGCGGCCA GTGCTGGTGT GGACGACCCC   840
CACCAGCATG GGCGAGGTGT CGCCCTGGCT GACTTCAACC GTGATGGCAA AGTGGACATC   900
GTCTATGGCA ACTGGAATGG CCCCCACCGC CTCTATCTGC AAATGAGCAC CCATGGGAAG   960
GTCCGCTTCC GGGACATCGC CTCACCCAAG TTCTCCATGC CCTCCCCTGT CCGCACGGTC  1020
ATCACCGCCG ACTTTGACAA TGACCAGGAG CTGGAGATCT TCTTCAACAA CATTGCCTAC  1080
CGCAGCTCCT CAGCCAACCG CCTCTTCCGC GTCATCCGTA GAGAGCACGG AGACCCCCTC  1140
ATCGAGGAGC TCAATCCCGG CGACGCCTTG GAGCCTGAGG GCCGGGGCAC AGGGGGTGTG  1200
GTGACCGACT TCGACGGAGA CGGGATGCTG GACCTCATCT TGTCCCATGG AGAGTCCATG  1260
GCTCAGCCGC TGTCCGTCTT CCGGGGCAAT CAGGGCTTCA ACAACAACTG GCTGCGAGTG  1320
GTGCCACGCA CCCGGTTTGG GGCCTTTGCC AGGGGAGCTA AGGTCGTGCT CTACACCAAG  1380
AAGAGTGGGG CCCACCTGAG GATCATCGAC GGGGGCTCAG GCTACCTGTG TGAGATGGAG  1440
CCCGTGGCAC ACTTTGGCCT GGGGAAGGAT GAAGCCAGCA GTGTGGAGGT GACGTGGCCA  1500
GATGGCAAGA TGGTGAGCCG GAACGTGGCC AGCGGGGAGA TGAACTCAGT GCTGGAGATC  1560
CTCTACCCCC GGGATGAGGA CACACTTCAG GACCCAGCCC CACTGGAGTG TGGCCAAGGA  1620
TTCTCCCAGC AGGAAAATGG CCATTGCATG GACACCAATG AATGCATCCA GTTCCCATTC  1680
GTGTGCCCTC GAGACAAGCC CGTATGTGTC AACACCTATG GAAGCTACAG GTGCCGGACC  1740
AACAAGAAGT GCAGTCGGGG CTACGAGCCC AACGAGGATG GCACAGCCTG CGTGGGGACT  1800
CTCGGCCAGT CACCGGGCCC CCGCCCCACC ACCCCCACCG CTGCTGCTGC CACTGCCGCT  1860
GCTGCTGCCG CTGCTGGAGC TGCCACTGCT GCACCGGTCC TCGTAGATGG AGATCTCAAT  1920
CTGGGGTCGG TGGTTAAGGA GAGCTGCGAG CCCAGCTGCT GAGCAGGGGT GGGACATGAA  1980
CCAGCGGATG GAGTCCAGCA GGGGAGTGGG AAAGTGGGCT TGTGCTGCTG CCTAGACAGT  2040
AGGGATGTAA AGGCCTGGGA GCTAGACCCT CCCCAAGCCC ATCCATGCAC ATTACTTAGC  2100
TAACAATTAG GGAGACTCGT AAGGCCAGGC CCTGTGCTGG GCACATAGCT GTGATCACAG  2160
CAGACAGGGT CGCTGCCCTG ATGGCGCTTA CATTCCAGTG GGTCTAATGA CCATATCTTA  2220
GGACACAGAT GTGCCCAGGG AGGTGGTGTC ACTGCACAGG AAGTATGAGG ACTTTAGTGT  2280
CCTGAGTTCA AATCCTGATT CAGGAACTCA CAAAGCTATG TGACCTTACA CCAGTCACTT  2340
AACTTGTTAG CCATCCATTA TCGCATCTGC AAAATGGGGA TTAAGAATAG AATCTTGGGG  2400
TTAGTGTGGA GATTAGATTA AATGTATGTA AGACACTTGG CACAAAACCT GGCACATAGT  2460
AAAGGCTCAA TAAAAACAAG TGCCTCTCAC TGGGCTTTGT CAACACG
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Seq ID NO: 471 Protein sequence
Protein Accession #: CAC08451

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1           11          21          31          41          51
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MSRMLPFLLL LWFLPITEGS QRAEPMFTAV TNSVLPPDYD SNPTQLNYGV AVTDVDHDGD    60
FEIVVAGYNG PNLVLKYDRA QKRLVNIAVD ERSSPYYALR DRQGNAIGVT ACDIDGDGRE   120
EIYFLNTNNA FSGVATYTDK LFKFRNNRWE DILSDEVNVA RGVASLFAGR SVACVDRKGS   180
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GRYSIYIANY AYGNVGPDAL IEMDPEASDL SRGILALRDV AAEAGVSKYT GGRGVSVGPI   240
LSSSASDIFC DNENGPNFLF HNRGDGTFVD AAASAGVDDP HQHGRGVALA DFNRDGKVDI   300
VYGNWNGPHR LYLQMSTHGK VRFRDIASPK FSMPSPVRTV ITADFDNDQE LEIFFNNIAY   360
RSSSANRLFR VIRREHGDPL IEELNPGDAL EPEGRGTGGV VTDFDGDGML DLILSHGESM   420
AQPLSVFRGN QGFNNNWLRV VPRTRFGAFA RGAKVVLYTK KSGAHLRIID GGSGYLCEME   480
PVAHFGLGKD EASSVEVTWP DGKMVSRNVA SGEMNSVLEI LYPRDEDTLQ DPAPLECGQG   540
FSQQENGHCM DTNECIQFPF VCPRDKPVCV NTYGSYRCRT NKKCSRGYEP NEDGTACVGT   600
LGQSPGPRPT TPTAAAATAA AAAAAGAATA APVLVDGDLN LGSVVKESCE PSC
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Seq ID NO: 472 DNA sequence
Nucleic Acid Accession #: FGENESHH
Coding sequence: 1..4794

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AGCGGCTCCT CCCCAGCATC CCCTCCCCAT TCCTCCTCCA GGTACAATGG ACCCAACCTG   120
GTTCTGAAGT ATGACCGGGC CCAGAAGCGG CTGGTGAACA TCGCGGTCGA TGAGCGCAGC   180
TCACCCTACT ACGCGCTGCG GGACCGGCAG GGGAACGCCA TCGGGGTCAC AGCCTGCGAC   240
ATCGACGGGG ACGGCCGGGA GGAGATCTAC TTCCTCAACA CCAATAATGC CTTCTCGGGC   300
CACAGCAGCT CAGCGCAGGT CCCTTCTGGG CTCCACAGAA ACAGGCCTGT GCTGAAGCCT   360
CCACCTACAA CCCCTGCAGG CCTCCTGGGT CTGCCTCCAC TCAGCGGAAG GGACTTTTCC   420
TCCTCCCTGG GTCAGGCTTC TCCGGACAGC AGGCAGGGAG AGAGGGTGCC GGTTCCCTGC   480
TGTCGGGGTG GACTGAGACC TACCCATGAA CCAGAACCAT TTCTTCTGAG ACCCAAATCA   540
GGGGTGGCCA CGTACACCGA CAAGTTGTTC AAGTTCCGCA ATAACCGGTG GGAAGACATC   600
CTGAGCGATG AGGTCAACGT GGCCCGTGGT GTGGCCAGCC TCTTTGCCGG ACGCTCTGTG   660
GCCTGTGTGG ACAGAAAGGG CTCTGGACGC TACTCTATCT ACATTGCCAA TTACGCCTAC   720
GGTAATGTGG GCCCTGATGC CCTCATTGAA ATGGACCCTG AGGCCAGTGA CCTCTCCCGG   780
GGCATTCTGG CGCTCAGAGA TGTGGCTGCT GAGGCTGGGG TCAGCAAATA TACAGAAGGC   840
TTCTCCCACA CTGCCTCTCC AAGCATTGGT GAGATATCTG GCAGAACCGA GGAGCGGGAA   900
GGAGGAGACC CAGAGGAGGC AGATGAGGAG CACAGTGGGG ATGGAAGCAC CAGCCAACTG   960
TGCCGGCTGG GCTGGAAGGA CGGGCAGTTC AAGGAAGAAG CAGCAGCTTT GGTGGAGGAA  1020
CAGAGGGAGG CTGGGGCAGC TGGCGTGCCC AGAGGACGTG TTCGAACAGC TCTGCAGACT  1080
TCCAAAAGCC ATTTGGCTGA CAAGAACCTA TTTGGCCCAC CATGTTACTA TTCTGTCTGC  1140
GCGCCTTCTC CAGCCCACCC TTTCCCTGCC CGCCAAGCCC CCCAACACTA CCCTGTAGCC  1200
CCCCTTGTCA CTCAGCTAAT GACACATGGA CGTCTGGCTG GAAAACTAGC CCGGAGTGTC  1260
CCCCACCCCC GAGCCCCAGG AATGGACCCC AAATGTAAGG GCCGCCATGC TGAGCCCGGC  1320
CTGATGGCTG AGGCTTTGGG CGCGTGGCCA GCGCTCAGCA CCACTGTGGT GCCAGGGGGC  1380
CTGAGAAGCT GGGAGGAAAG CAGGCAGAAG GGGCAGGCCA TGTCCAGATG TGCACTCAGG  1440
GAGCTGGGAG GTCCCTGGAG CCAAGCCACA CAGCACCTGC CTGCTAGAGA GCTGTATGAC  1500
CTGGGAGAAC CTCCCATTTT ACAAAGAACA GACGGAGATC CAGGGAGGAG AAGGGACTCG  1560
CCCAAGGTCA CACAGGAGTG CCATCTAGTG GCCACCATGC CAGCTCTCGG GGGACTCGAG  1620
GGCCCCGGGA GGGTGGCCAA GCGAGAGATT GGGAGAGAGA CTGGGGCAGT AGGAAGACCA  1680
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CTGGCGTGGA ACCAGATGGA AAAAGAGGAG GGGAAGATTC ATGGAGACCA TGAGCCCAGA  1860
TTTAGGCTCA GGAAAGCACG GGAAGCAGAA TTCCCCCCAG GCTCCTCTGA GGAGCCTCTG  1920
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TCTGCCACTC ACTGTGGGTC GATGTCTTTT CTAGGGGGCC GAGGCGTCAG CGTGGGCCCC  2040
ATCCTCAGCA GCAGTGCCTC GGATATCTTC TGCGACAATG AGAATGGGCC TAACTTCCTT  2100
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GCCTTCATCG TTCACCTCAA ATATCACCTC TGCAGAGATT TTCCTCACTC CCTGTGCCAC  2220
CTAGCAGAAA CTGGTCCTTC CTCCTCCTGC TGCCCGTGGC ATGCACGTCT TCTTCAGGCT  2280
CCACATTGCC ATCATGGTTT GTCTATGAGC TTTACAAGGA CCGGGTCACG GTTCTATTCA  2340
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ACTGCCTATT ACATTGTCCT GTGGTCTGCC ATCCCAGAGA GCCTGATGAC CCACAGCTAT  2520
TTGTCCTCTG AAAGAGTCAA CGTGGGTGTG GACGACCCCC ACCAGCATGG GCGAGGTGTC  2580
GCCCTGGCTG ACTTCAACCG TGATGGCAAA GTGGACATCG TCTATGGCAA CTGGAATGGC  2640
CCCCACCGCC TCTATCTGCA AATGAGCACC CATGGGAAGG TCCGCTTCCG GGACATCGCC  2700
TCACCCAAGT TCTCCATGCC CTCCCCTGTC CGCACGGTCA TCACCGCCGA CTTTGACAAT  2760
GACCAGGAGC TGGAGATCTT CTTCAACAAC ATTGCCTACC GCAGCTCCTC AGCCAACCGC  2820
CTCTTCCGAT GCTCCATCCT GGCTCGTGGC TCTTCATCCT TGACAGCTGG TGGGAGGAAC  2880
GGTCAGGGAG AAGGTTTAAG AATCAGAAGG GGAGGGTTCC CAGGGCCAGG GGGTCAGGCC  2940
AAGGTCAACA CAGGTCCCCT GATGAAGAAA CAGAAAGGAA GGAAGGACGA GGACTGGGCA  3000
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CCACACTACC ACAAAAAGGG GCTACAGGGT CCAATCACTA CCAGGAAAAG GGGCTACGGG  3180
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AGGGGCTACG GGCTCCAATC ACTACCAGGA AAAGGGGCTA CAGGGTCCAA TCACTACCAC  3420
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CCAGGAAAAG GGGCTACAGG GTCCAATCAC TACCAGGAAA AGGGGCTACG GGGTCCAATC  3540
ACTACCAGGA AAAGGGGCTA CGGGCTCCAA TCACTACCAG GAAAAGGGGC TACGGGGTCC  3600
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GTCCAATCAC TACCACAGAA AGGGGCTACG GGCTCCAATC ACTACCAGGA AAAGGGGCTA  3720
CGGGGTCCAA TCACTACCAG GAAAAGGGGC TACGGGCTCC AATCACTACC AGGAAAAGAG  3780
GCTATGGGGT CCAATCACTA CCAGGAAAAG GGGCTACGGG CTCCAATCAC TACCAGGAAA  3840
AGGGGCTATG GGGTCCAATC ACTACCACAG AAAGGGGCTA CGGGGTCCAA CGTCATCCGT  3900
AGAGAGCACG GAGACCCCCT CATCGAGGAG CTCAATCCCG GCGACGCCTT GGAGCCTGAG  3960
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AACAACAACT GGCTGCGAGT GGTGCCACGC ACCCGGTTTG GGGCCTTTGC CAGGGGAGCT  4140
AAGGTCGTGC TCTACACCAA GAAGAGTGGG GCCCACCTGA GGATCATCGA CGGGGGCTCA  4200
GGCTACCTGT GTGAGATGGA GCCCGTGGCA CACTTTGGCC TGGGGAAGGA TGAAGCCAGC  4260
AGTGTGGAGG TGACGTGGCC AGATGGCAAG ATGGTGAGCC GGAACGTGGC CAGCGGGGAG  4320
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ATGAACTCAG TGCTGGAGAT CCTCTACCCC CGGGATGAGG ACACACTTCA GGACCCAGCC  4380
CCACTGGAGT GTGGCCAAGG ATTCTCCCAG CAGGAAAATG GCCATTGCAT GGACACCAAT  4440
GAATGCATCC AGTTCCCATT CGTGTGCCCT CGAGACAAGC CCGTATGTGT CAACACCTAT  4500
GGAAGCTACA GGTGCCGGAC CAACAAGAAG TGCAGTCGGG GCTACGAGCC CAACGAGGAT  4560
GGCACAGCCT GCGTGGGTAC TGAGCTAGGC TCTAGGCATA CAATGACGTG GAAACCAAGG  4620
CCCAAAAAGG AGCTGCAACT TTCCCAAGGC ATCTGCACCC CCGTCTGGTC CTTTTTCCTG  4680
CCGGGTTGCC GGCTGCTCCT CAAAAGAGCT CAGCTCCAGG CTGCTCCCAG CACCCTTCTC  4740
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Seq ID NO: 473 Protein sequence
Protein Accession #: FGENESH predicted

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SPYYALRDRQ GNAIGVTACD IDGDGREEIY FLNTNNAFSG HSSSAQVPSG LHRNRPVLKP   120
PPTTPAGLLG LPPLSGRDFS SSLGQASPDS RQGERVPVPC CRGGLRPTHE PEPFLLRPKS   180
GVATYTDKLF KFRNNRWEDI LSDEVNVARG VASLFAGRSV ACVDRKGSGR YSIYIANYAY   240
GNVGPDALIE MDPEASDLSR GILALRDVAA EAGVSKYTEG FSHTASPSIG EISGRTEERE   300
GGDPEEADEE HSGDGSTSQL CRLGWKDGQF KEEAAALVEE QREAGAAGVP RGRVRTALQT   360
SKSHLADKNL FGPPCYYSVC APSPAHPFPA RQAPQHYPVA PLVTQLMTHG RLAGKLARSV   420
PHPRAPGMDP KCKGRHAEPG LMAEALGAWP ALSTTVVPGG LRSWEESRQK GQAMSRCALR   480
ELGGPWSQAT QHLPARELYD LGEPPILQRT DGDPGRRRDS PKVTQECHLV ATMPALGGLE   540
GPGRVAKREI GRETGAVGRP LSHPLVPNFP SCLRPLEAGT VPGAALPGNP GNWVLDMAKA   600
LAWNQMEKEE GKIHGDHEPR FRLRKAREAE FPPGSSEEPL LQFPSGLRGS PVLQVGLGLA   660
SATHCGSMSF LGGRGVSVGP ILSSSASDIF CDNENGPNFL FHNRGDGTFV DAAASAERRL   720
AFIVHLKYHL CRDFPHSLCH LAETGPSSSC CPWHARLLQA PHCHHGLSMS FTRTGSRFYS   780
FLTQGLASSA HRRTLSLQGS QGAPPCLLAR APCVLGSLIP TAYYIVLWSA IPESLMTHSY   840
LSSERVNVGV DDPHQHGRGV ALADFNRDGK VDIVYGNWNG PHRLYLQMST HGKVRFRDIA   900
SPKFSMPSPV RTVITADFDN DQELEIFFNN IAYRSSSANR LFRCSILARG SSSLTAGGRN   960
GQGEGLRIRR GGFPGPGGQA KVNTGPLMKK QKGRKDEDWA RGCGNAGQSL AKEPASAIAG  1020
KGKGNVAQSV PRTQAPQDTK PHYHKKGLQG PITTRKRGYG VQSLPGKGAT GSNHYQEKGL  1080
RGPITTRKRG YGVQSLPGKG ATGSNHYQEK GLQGPITTRK RGYGLQSLPG KGATGSNHYH  1140
RKGLRAPITT RKRGYGVQSL PGKGATGSNH YQEKGLRGPI TTRKRGYGLQ SLPGKGATGS  1200
NHYQEKGLQG PITTRKRGYR VQSLPQKGAT GSNHYQEKGL RGPITTRKRG YGLQSLPGKE  1260
AMGSNHYQEK GLRAPITTRK RGYGVQSLPQ KGATGSNVIR REHGDPLIEE LNPGDALEPE  1320
GRGTGGVVTD FDGDGMLDLI LSHGESMAQP LSVFRGNQGF NNNWLRVVPR TRFGAFARGA  1380
KVVLYTKKSG AHLRIIDGGS GYLCEMEPVA HFGLGKDEAS SVEVTWPDGK MVSRNVASGE  1440
MNSVLEILYP RDEDTLQDPA PLECGQGFSQ QENGHCMDTN ECIQFPFVCP RDKPVCVNTY  1500
GSYRCRTNKK CSRGYEPNED GTACVGTELG SRHTMTWKPR PKKELQLSQG ICTPVWSFFL  1560
PGCRLLLKRA QLQAAPSTLL QKAPGIPEAQ VYEQDQE
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Seq ID NO: 474 DNA sequence
Nucleic Acid Accession #: NM_003661.1
Coding sequence: 1..1152

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1          11         21         31         41         51
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ATGAGTGCAC TTTTCCTTGG TGTGGGAGTG AGGGCAGAGG AAGCTGGAGC GAGGGTGCAA    60
CAAAACGTTC CAAGTGGGAC AGATACTGGA GATCCTCAAA GTAAGCCCCT CGGTGACTGG   120
GCTGCTGGCA CCATGGACCC AGAGAGCAGT ATCTTTATTG AGGATGCCAT TAAGTATTTC   180
AAGGAAAAAG TGAGCACACA GAATCTGCTA CTCCTGCTGA CTGATAATGA GGCCTGGAAC   240
GGATTCGTGG CTGCTGCTGA ACTGCCCAGG AATGAGGCAG ATGAGCTCCG TAAAGCTCTG   300
GACAACCTTG CAAGACAAAT GATCATGAAA GACAAAAACT GGCACGATAA AGGCCAGCAG   360
TACAGAAACT GGTTTCTGAA AGAGTTTCCT CGGTTGAAAA GTGAGCTTGA GGATAACATA   420
AGAAGGCTCC GTGCCCTTGC AGATGGGGTT CAGAAGGTCC ACAAAGGCAC CACCATCGCC   480
AATGTGGTGT CTGGCTCTCT CAGCATTTCC TCTGGCATCC TGACCCTCGT CGGCATGGGT   540
CTGGCACCCT TCACAGAGGG AGGCAGCCTT GTACTCTTGG AACCTGGGAT GGAGTTGGGA   600
ATCACAGCCG CTTTGACCGG GATTACCAGC AGTACCATGG ACTACGGAAA GAAGTGGTGG   660
ACACAAGCCC AAGCCCACGA CCTGGTCATC AAAAGCCTTG ACAAATTGAA GGAGGTGAGG   720
GAGTTTTTGG GTGAGAACAT ATCCAACTTT CTTTCCTTAG CTGGCAATAC TTACCAACTC   780
ACACGAGGCA TTGGGAAGGA CATCCGTGCC CTCAGACGAG CCAGAGCCAA TCTTCAGTCA   840
GTACCGCATG CCTCAGCCTC ACGCCCCCGG GTCACTGAGC CAATCTCAGC TGAAAGCGGT   900
GAACAGGTGG AGAGGGTTAA TGAACCCAGC ATCCTGGAAA TGAGCAGAGG AGTCAAGCTC   960
ACGGATGTGG CCCCTGTAAG CTTCTTTCTT GTGCTGGATG TAGTCTACCT CGTGTACGAA  1020
TCAAAGCACT TACATGAGGG GGCAAAGTCA GAGACAGCTG AGGAGCTGAA GAAGGTGGCT  1080
CAGGAGCTGG AGGAGAAGCT AAACATTCTC AACAATAATT ATAAGATTCT GCAGGCGGAC  1140
CAAGAACTGT GA
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Seq ID NO: 475 Protein sequence
Protein Accession #: NP_003652.1

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1          11         21         31         41         51
|          |          |          |          |          |
MSALFLGVGV RAEEAGARVQ QNVPSGTDTG DPQSKPLGDW AAGTMDPESS IFIEDAIKYF    60
KEKVSTQNLL LLLTDNEAWN GFVAAAELPR NEADELRKAL DNLARQMIMK DKNWHDKGQQ   120
YRNWFLKEFP RLKSELEDNI RRLRALADGV QKVHKGTTIA NVVSGSLSIS SGILTLVGMG   180
LAPFTEGGSL VLLEPGMELG ITAALTGITS STMDYGKKWW TQAQAHDLVI KSLDKLKEVR   240
EFLGENISNF LSLAGNTYQL TRGIGKDIRA LRRARANLQS VPHASASRPR VTEPISAESG   300
EQVERVNEPS ILEMSRGVKL TDVAPVSFFL VLDVVYLVYE SKHLHEGAKS ETAEELKKVA   360
QELEEKLNIL NNNYKILQAD QEL
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Seq ID NO: 476 DNA sequence
Nucleic Acid Accession #: NM_014452.1
Coding sequence: 1..1968

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1          11         21         31         41         51
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ATGGGGACCT CTCCGAGCAG CAGCACCGCC CTCGCCTCCT GCAGCCGCAT CGCCCGCCGA   60
GCCACAGCCA CGATGATCGC GGGCTCCCTT CTCCTGCTTG GATTCCTTAG CACCACCACA  120
GCTCAGCCAG AACAGAAGGC CTCGAATCTC ATTGGCACAT ACCGCCATGT TGACCGTGCC  180
ACCGGCCAGG TGCTAACCTG TGACAAGTGT CCAGCAGGAA CCTATGTCTC TGAGCATTGT  240
ACCAACACAA GCCTGCGCGT CTGCAGCAGT TGCCCTGTGG GGACCTTTAC CAGGCATGAG  300
AATGGCATAG AGAAATGCCA TGACTGTAGT CAGCCATGCC CATGGCCAAT GATTGAGAAA  360
TTACCTTGTG CTGCCTTGAC TGACCGAGAA TGCACTTGCC CACCTGGCAT GTTCCAGTCT  420
AACGCTACCT GTGCCCCCCA TACGGTGTGT CCTGTGGGTT GGGGTGTGCG GAAGAAAGGG  480
ACAGAGACTG AGGATGTGCG GTGTAAGCAG TGTGCTCGGG GTACCTTCTC AGATGTGCCT  540
TCTAGTGTGA TGAAATGCAA AGCATACACA GACTGTCTGA GTCAGAACCT GGTGGTGATC  600
AAGCCGGGGA CCAAGGAGAC AGACAACGTC TGTGGCACAC TCCCGTCCTT CTCCAGCTCC  660
ACCTCACCTT CCCCTGGCAC AGCCATCTTT CCACGCCCTG AGCACATGGA AACCCATGAA  720
GTCCCTTCCT CCACTTATGT TCCCAAAGGC ATGAACTCAA CAGAATCCAA CTCTTCTGCC  780
TCTGTTAGAC CAAAGGTACT GAGTAGCATC CAGGAAGGGA CAGTCCCTGA CAACACAAGC  840
TCAGCAAGGG GGAAGGAAGA CGTGAACAAG ACCCTCCCAA ACCTTCAGGT AGTCAACCAC  900
CAGCAAGGCC CCCACCACAG ACACATCCTG AAGCTGCTGC CGTCCATGGA GGCCACTGGG  960
GGCGAGAAGT CCAGCACGCC CATCAAGGGC CCCAAGAGGG GACATCCTAG ACAGAACCTA 1020
CACAAGCATT TTGACATCAA TGAGCATTTG CCCTGGATGA TTGTGCTTTT CCTGCTGCTG 1080
GTGCTTGTGG TGATTGTGGT GTGCAGTATC CGGAAAAGCT CGAGGACTCT GAAAAAGGGG 1140
CCCCGGCAGG ATCCCAGTGC CATTGTGGAA AAGGCAGGGC TGAAGAAATC CATGACTCCA 1200
ACCCAGAACC GGGAGAAATG GATCTACTAC TGCAATGGCC ATGGTATCGA TATCCTGAAG 1260
CTTGTAGCAG CCCAAGTGGG AAGCCAGTGG AAAGATATCT ATCAGTTTCT TTGCAATGCC 1320
AGTGAGAGGG AGGTTGCTGC TTTCTCCAAT GGGTACACAG CCGACCACGA GCGGGCCTAC 1380
GCAGCTCTGC AGCACTGGAC CATCCGGGGC CCCGAGGCCA GCCTCGCCCA GCTAATTAGC 1440
GCCCTGCGCC AGCACCGGAG AAACGATGTT GTGGAGAAGA TTCGTGGGCT GATGGAAGAC 1500
ACCACCCAGC TGGAAACTGA CAAACTAGCT CTCCCGATGA GCCCCAGCCC GCTTAGCCCG 1560
AGCCCCATCC CCAGCCCCAA CGCGAAACTT GAGAATTCCG CTCTCCTGAC GGTGGAGCCT 1620
TCCCCACAGG ACAAGAACAA GGGCTTCTTC GTGGATGAGT CGGAGCCCCT TCTCCGCTGT 1680
GACTCTACAT CCAGCGGCTC CTCCGCGCTG AGCAGGAACG GTTCCTTTAT TACCAAAGAA 1740
AAGAAGGACA CAGTGTTGCG GCAGGTACGC CTGGACCCCT GTGACTTGCA GCCTATCTTT 1800
GATGACATGC TCCACTTTCT AAATCCTGAG GAGCTGCGGG TGATTGAAGA GATTCCCCAG 1860
GCTGAGGACA AACTAGACCG GCTATTCGAA ATTATTGGAG TCAAGAGCCA GGAAGCCAGC 1920
CAGACCCTCC TGGACTCTGT TTATAGCCAT CTTCCTGACC TGCTGTAG
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Seq ID NO: 477 Protein sequence
Protein Accession #: NP_055267.1

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1          11          21          31          41          51
|          |           |           |           |           |
MGTSPSSSTA LASCSRIARR ATATMIAGSL LLLGFLSTTT AQPEQKASNL IGTYRHVDRA   60
TGQVLTCDKC PAGTYVSEHC TNTSLRVCSS CPVGTFTRHE NGIEKCHDCS QPCPWPMIEK  120
LPCAALTDRE CTCPPGMFQS NATCAPHTVC PVGWGVRKKG TETEDVRCKQ CARGTFSDVP  180
SSVMKCKAYT DCLSQNLVVI KPGTKETDNV CGTLPSFSSS TSPSPGTAIF PRPEHMETHE  240
VPSSTYVPKG MNSTESNSSA SVRPKVLSSI QEGTVPDNTS SARGKEDVNK TLPNLQVVNH  300
QQGPHHRHIL KLLPSMEATG GEKSSTPIKG PKRGHPRQNL HKHFDINEHL PWMIVLFLLL  360
VLVVIVVCSI RKSSRTLKKG PRQDPSAIVE KAGLKKSMTP TQNREKWIYY CNGHGIDILK  420
LVAAQVGSQW KDIYQFLCNA SEREVAAFSN GYTADHERAY AALQHWTIRG PEASLAQLIS  480
ALRQHRRNDV VEKIRGLMED TTQLETDKLA LPMSPSPLSP SPIPSPNAKL ENSALLTVEP  540
SPQDKNKGFF VDESEPLLRC DSTSSGSSAL SRNGSFITKE KKDTVLRQVR LDPCDLQPIF  600
DDMLHFLNPE ELRVIEEIPQ AEDKLDRLFE IIGVKSQEAS QTLLDSVYSH LPDLL
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Seq ID NO: 478 DNA sequence
Nucleic Acid Accession #: XM_044533
Coding sequence: 238..2751

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AGGGGCTGAG TTTGCCAGGG CCCACTTGAC CCTGTTTCCC ACCTCCCGCC CCCCAGGTCC  120
GGAGGCGGGG GCCCCCGGGG CGACTCGGGG GCGGACCGCG GGGCGGAGCT GCCGCCCGTG  180
AGTCCGGCCG AGCCACCTGA GCCCGAGCCG CGGGACACCG TCGCTCCTGC TCTCCGAATG  240
CTGCGCACCG CGATGGGCCT GAGGAGCTGG CTCGCCGCCC CATGGGGCGC GCTGCCGCCT  300
CGGCCACCGC TGCTGCTGCT CCTGCTGCTG CTGCTCCTGC TGCAGCCGCC GCCTCCGACC  360
TGGGCGCTCA GCCCCCGGAT CAGCCTGCCT CTGGGCTCTG AAGAGCGGCC ATTCCTCAGA  420
TTCGAAGCTG AACACATCTC CAACTACACA GCCCTTCTGC TGAGCAGGGA TGGCAGGACC  480
CTGTACGTGG GTGCTCGAGA GGCCCTCTTT GCACTCAGTA GCAACCTCAG CTTCCTGCCA  540
GGCGGGGAGT ACCAGGAGCT GCTTTGGGGT GCAGACGCAG AGAAGAAACA GCAGTGCAGC  600
TTCAAGGGCA AGGACCCACA GCGCGACTGT CAAAACTACA TCAAGATCCT CCTGCCGCTC  660
AGCGGCAGTC ACCTGTTCAC CTGTGGCACA GCAGCCTTCA GCCCCATGTG TACCTACATC  720
AACATGGAGA ACTTCACCCT GGCAAGGGAC GAGAAGGGGA ATGTCCTCCT GGAAGATGGC  780
AAGGGCCGTT GTCCCTTCGA CCCGAATTTC AAGTCCACTG CCCTGGTGGT TGATGGCGAG  840
CTCTACACTG GAACAGTCAG CAGCTTCCAA GGGAATGACC CGGCCATCTC GCGGAGCCAA  900
AGCCTTCGCC CCACCAAGAC CGAGAGCTCC CTCAACTGGC TGCAAGACCC AGCTTTTGTG  960
GCCTCAGCCT ACATTCCTGA GAGCCTGGGC AGCTTGCAAG GCGATGATGA CAAGATCTAC 1020
TTTTTCTTCA GCGAGACTGG CCAGGAATTT GAGTTCTTTG AGAACACCAT TGTGTCCCGC 1080
ATTGCCCGCA TCTGCAAGGG CGATGAGGGT GGAGAGCGGG TGCTACAGCA GCGCTGGACC 1140
TCCTTCCTCA AGGCCCAGCT GCTGTGCTCA CGGCCCGACG ATGGCTTCCC CTTCAACGTG 1200
CTGCAGGATG TCTTCACGCT GAGCCCCAGC CCCCAGGACT GGCGTGACAC CCTTTTCTAT 1260
GGGGTCTTCA CTTCCCAGTG GCACAGGGGA ACTACAGAAG GCTCTGCCGT CTGTGTCTTC 1320
ACAATGAAGG ATGTGCAGAG AGTCTTCAGC GGCCTCTACA AGGAGGTGAA CCGTGAGACA 1380
CAGCAGTGGT ACACCGTGAC CCACCCGGTG CCCACACCCC GGCCTGGAGC GTGCATCACC 1440
AACAGTGCCC GGGAAAGGAA GATCAACTCA TCCCTGCAGC TCCCAGACCG CGTGCTGAAC 1500
TTCCTCAAGG ACCACTTCCT GATGGACGGG CAGGTCCGAA GCCGCATGCT GCTGCTGCAG 1560
CCCCAGGCTC GCTACCAGCG CGTGGCTGTA CACCGCGTCC CTGGCCTGCA CCACACCTAC 1620
GATGTCCTCT TCCTGGGCAC TGGTGACGGC CGGCTCCACA AGGCAGTGAG CGTGGGCCCC 1680
CGGGTGCACA TCATTGAGGA GCTGCAGATC TTCTCATCGG GACAGCCCGT GCAGAATCTG 1740
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CTCCTGGACA CCCACAGGGG GCTGCTGTAT GCGGCCTCAC ACTCGGGCGT AGTCCAGGTG  1800
CCCATGGCCA ACTGCAGCCT GTACAGGAGC TGTGGGGACT GCCTCCTCGC CCGGGACCCC  1860
TACTGTGCTT GGAGCGGCTC CAGCTGCAAG CACGTCAGCC TCTACCAGCC TCAGCTGGCC  1920
ACCAGGCCGT GGATCCAGGA CATCGAGGGA GCCAGCGCCA AGGACCTTTG CAGCGCGTCT  1980
TCGGTTGTGT CCCCGTCTTT TGTACCAACA GGGGAGAAGC CATGTGAGCA AGTCCAGTTC  2040
CAGCCCAACA CAGTGAACAC TTTGGCCTGC CCGCTCCTCT CCAACCTGGC GACCCGACTC  2100
TGGCTACGCA ACGGGGCCCC CGTCAATGCC TCGGCCTCCT GCCACGTGCT ACCCACTGGG  2160
GACCTGCTGC TGGTGGGCAC CCAACAGCTG GGGGAGTTCC AGTGCTGGTC ACTAGAGGAG  2220
GGCTTCCAGC AGCTGGTAGC CAGCTACTGC CCAGAGGTGG TGGAGGACGG GGTGGCAGAC  2280
CAAACAGATG AGGGTGGCAG TGTACCCGTC ATTATCAGCA CATCGCGTGT GAGTGCACCA  2340
GCTGGTGGCA AGGCCAGCTG GGGTGCAGAC AGGTCCTACT GGAAGGAGTT CCTGGTGATG  2400
TGCACGCTCT TTGTGCTGGC CGTGCTGCTC CCAGTTTTAT TCTTGCTCTA CCGGCACCGG  2460
AACAGCATGA AAGTCTTCCT GAAGCAGGGG GAATGTGCCA GCGTGCACCC CAAGACCTGC  2520
CCTGTGGTGC TGCCCCCTGA GACCCGCCCA CTCAACGGCC TAGGGCCCCC TAGCACCCCG  2580
CTCGATCACC GAGGGTACCA GTCCCTGTCA GACAGCCCCC CGGGGTCCCG AGTCTTCACT  2640
GAGTCAGAGA AGAGGCCACT CAGCATCCAA GACAGCTTCG TGGAGGTATC CCCAGTGTGC  2700
CCCCGGCCCC GGGTCCGCCT TGGCTCGGAG ATCCGTGACT CTGTGGTGTG AGAGCTGACT  2760
TCCAGAGGAC GCTGCCCTGG CTTCAGGGGC TGTGAATGCT CGGAGAGGGT CAACTGGACC  2820
TCCCCTCCGC TCTGCTCTTC GTGGAACACG ACCGTGGTGC CCGGCCCTTG GGAGCCTTGG  2880
GGCCAGCTGG CCTGCTGCTC TCCAGTCAAG TAGCGAAGCT CCTACCACCC AGACACCCAA  2940
ACAGCCGTGG CCCCAGAGGT CCTGGCCAAA TATGGGGGCC TGCCTAGGTT GGTGGAACAG  3000
TGCTCCTTAT GTAAACTGAG CCCTTTGTTT AAAAAACAAT TCCAAATGTG AAACTAGAAT  3060
GAGAGGGAAG AGATAGCATG GCATGCAGCA CACACGGCTG CTCCAGTTCA TGGCCTCCCA  3120
GGGGTGCTGG GGATGCATCC AAAGTGGTTG TCTGAGACAG AGTTGGAAAC CCTCACCAAC  3180
TGGCCTCTTC ACCTTCCACA TTATCCCGCT GCCACCGGCT GCCCTGTCTC ACTGCAGATT  3240
CAGGACCAGC TTGGGCTGCG TGCGTTCTGC CTTGCCAGTC AGCCGAGGAT GTAGTTGTTG  3300
CTGCCGTCGT CCCACCACCT CAGGGACCAG AGGGCTAGGT TGGCACTGCG GCCCTCACCA  3360
GGTCCTGGGC TCGGACCCAA CTCCTGGACC TTTCCAGCCT GTATCAGGCT GTGGCCACAC  3420
GAGAGGACAG CGCGAGCTCA GGAGAGATTT CGTGACAATG TACGCCTTTC CCTCAGAATT  3480
CAGGGAAGAG ACTGTCGCCT GCCTTCCTCC GTTGTTGCGT GAGAACCCGT GTGCCCCTTC  3540
CCACCATATC CACCCTCGCT CCATCTTTGA ACTCAAACAC GAGGAACTAA CTGCACCCTG  3600
GTCCTCTCCC CAGTCCCCAG TTCACCCTCC ATCCCTCACC TTCCTCCACT CTAAGGGATA  3660
TCAACACTGC CCAGCACAGG GGCCCTGAAT TTATGTGGTT TTTATACATT TTTTAATAAG  3720
ATGCACTTTA TGTCATTTTT TAATAAAGTC TGAAGAATTA CTGTTT
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Seq ID NO: 479 Protein sequence
Protein Accession #: XP_044533.3

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MLRTAMGLRS WLAAPWGALP PRPPLLLLLL LLLLLQPPPP TWALSPRISL PLGSEERPFL    60
RFEAEHISNY TALLLSRDGR TLYVGAREAL FALSSNLSFL PGGEYQELLW GADAEKKQQC   120
SFKGKDPQRD CQNYIKILLP LSGSHLFTCG TAAFSPMCTY INMENFTLAR DEKGNVLLED   180
GKGRCPFDPN FKSTALVVDG ELYTGTVSSF QGNDPAISRS QSLRPTKTES SLNWLQDPAF   240
VASAYIPESL GSLQGDDDKI YFFFSETGQE FEFFENTIVS RIARICKGDE GGERVLQQRW   300
TSFLKAQLLC SRPDDGFPFN VLQDVFTLSP SPQDWRDTLF YGVFTSQWHR GTTEGSAVCV   360
FTMKDVQRVF SGLYKEVNRE TQQWYTVTHP VPTPRPGACI TNSARERKIN SSLQLPDRVL   420
NFLKDHFLMD GQVRSRMLLL QPQARYQRVA VHRVPGLHHT YDVLFLGTGD GRLHKAVSVG   480
PRVHIIEELQ IFSSGQPVQN LLLDTHRGLL YAASHSGVVQ VPMANCSLYR SCGDCLLARD   540
PYCAWSGSSC KHVSLYQPQL ATRPWIQDIE GASAKDLCSA SSVVSPSFVP TGEKPCEQVQ   600
FQPNTVNTLA CPLLSNLATR LWLRNGAPVN ASASCHVLPT GDLLLVGTQQ LGEFQCWSLE   660
EGFQQLVASY CPEVVEDGVA DQTDEGGSVP VIISTSRVSA PAGGKASWGA DRSYWKEFLV   720
MCTLFVLAVL LPVLFLLYRH RNSMKVFLKQ GECASVHPKT CPVVLPPETR PLNGLGPPST   780
PLDHRGYQSL SDSPPGSRVF TESEKRPLSI QDSFVEVSPV CPRPRVRLGS EIRDSVV
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Seq ID NO: 480 DNA sequence
Nucleic Acid Accession #: NM_004217.1
Coding sequence: 58..1092

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GCCCAGAAGG AGAACTCCTA CCCCTGGCCC TACGGCCGAC AGACGGCTCC ATCTGGCCTG   120
AGCACCCTGC CCCAGCGAGT CCTCCGGAAA GAGCCTGTCA CCCCATCTGC ACTTGTCCTC   180
ATGAGCCGCT CCAATGTCCA GCCCACAGCT GCCCCTGGCC AGAAGGTGAT GGAGAATAGC   240
AGTGGGACAC CCGACATCTT AACGCGGCAC TTCACAATTG ATGACTTTGA GATTGGGCGT   300
CCTCTGGGCA AAGGCAAGTT TGGAAACGTG TACTTGGCTC GGGAGAAGAA AAGCCATTTC   360
ATCGTGGCGC TCAAGGTCCT CTTCAAGTCC CAGATAGAGA AGGAGGGCGT GGAGCATCAG   420
CTGCGCAGAG AGATCGAAAT CCAGGCCCAC CTGCACCATC CCAACATCCT GCGTCTCTAC   480
AACTATTTTT ATGACCGGAG GAGGATCTAC TTGATTCTAG AGTATGCCCC CCGCGGGGAG   540
CTCTACAAGG AGCTGCAGAA GAGCTGCACA TTTGACGAGC AGCGAACAGC CACGATCATG   600
GAGGAGTTGG CAGATGCTCT AATGTACTGC CATGGGAAGA AGGTGATTCA CAGAGACATA   660
AAGCCAGAAA ATCTGCTCTT AGGGCTCAAG GGAGAGCTGA AGATTGCTGA CTTCGGCTGG   720
TCTGTGCATG CGCCCTCCCT GAGGAGGAAG ACAATGTGTG GCACCCTGGA CTACCTGCCC   780
CCAGAGATGA TTGAGGGGCG CATGCACAAT GAGAAGGTGG ATCTGTGGTG CATTGGAGTG   840
CTTTGCTATG AGCTGCTGGT GGGGAACCCA CCCTTTGAGA GTGCATCACA CAACGAGACC   900
TATCGCCGCA TCGTCAAGGT GGACCTAAAG TTCCCCGCTT CTGTGCCCAC GGGAGCCCAG   960
GACCTCATCT CCAAACTGCT CAGGCATAAC CCCTCGGAAC GGCTGCCCCT GGCCCAGGTC  1020
TCAGCCCACC CTTGGGTCCG GGCCAACTCT CGGAGGGTGC TGCCTCCCTC TGCCCTTCAA  1080
TCTGTCGCCT GATGGTCCCT GTCATTCACT CGGGTGCGTG TGTTTGTATG TCTGTGTATG  1140
TATAGGGGAA AGAAGGGATC CCTAACTGTT CCCTTATCTG TTTTCTACCT CCTCCTTTGT  1200
TTAATAAAGG CTGAAGCTTT TTGT
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Seq ID NO: 481 Protein sequence
Protein Accession #: NP_004208

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1          11         21         31         41         51
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MAQKENSYPW PYGRQTAPSG LSTLPQRVLR KEPVTPSALV LMSRSNVQPT AAPGQKVMEN    60
SSGTPDILTR HFTIDDFEIG RPLGKGKFGN VYLAREKKSH FIVALKVLFK SQIEKEGVEH   120
QLRREIEIQA HLHHPNILRL YNYFYDRRRI YLILEYAPRG ELYKELQKSC TFDEQRTATI   180
MEELADALMY CHGKKVIHRD IKPENLLLGL KGELKIADFG WSVHAPSLRR KTMCGTLDYL   240
PPEMIEGRMH NEKVDLWCIG VLCYELLVGN PPFESASHNE TYRRIVKVDL KFPASVPTGA   300
QDLISKLLRH NPSERLPLAQ VSAHPWVRAN SRRVLPPSAL QSVA

Seq ID NO: 482 DNA sequence
Nucleic Acid Accession #: AK055663
Coding sequence: 38..1423

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AAAACCACAA AGATCCTTTT TTGGCAAGTT GTTACGGGAA TTTAGACTTG TAGCAGCTGA   120
CCGAAGGTCC TGGAAGATAC TGCTCTTTGG TGTAATAAAC TTGATATGTA CTGGCTTCCT   180
GCTTATGTGG TGCAGTTCTA CTAATAGTAT AGCTTTAACT GCCTATACTT ACCTGACCAT   240
TTTTGATCTT TTTAGTTTAA TGACATGTTT AATAAGTTAC TGGGTAACAT TGAGGAAACC   300
TAGCCCTGTC TATTCATTTG GGTTTGAAAG ATTAGAAGTC CTGGCTGTAT TTGCCTCCAC   360
AGTCTTGGCA CAGTTGGGAG CTCTCTTTAT ATTAAAAGAA AGTGCAGAAC GCTTTTTGGA   420
ACAGCCCGAG ATACACACGG GAAGATTATT AGTTGGTACT TTTGTGGCTC TTTGTTTCAA   480
CCTGTTCACG ATGCTTTCTA TTCGGAATAA ACCTTTTGCT TATGTCTCAG AAGCTGCTAG   540
TACGAGCTGG CTTCAAGAGC ATGTTGCAGA TCTTAGTCGA AGCTTGTGTG GAATTATTCC   600
GGGACTTAGC AGTATCTTCC TTCCCCGAAT GAATCCATTT GTTTTGATTG ATCTTGCTGG   660
AGCATTTGCT CTTTGTATTA CATATATGCT CATTGAAATT AATAATTATT TTGCCGTAGA   720
CACTGCCTCT GCTATAGCTA TTGCCTTGAT GACATTTGGC ACTATGTATC CCATGAGTGT   780
GTACAGTGGG AAAGTCTTAC TCCAGACAAC ACCACCCCAT GTTATTGGTC AGTTGGACAA   840
ACTCATCAGA GAGGTATCTA CCTTAGATGG AGTTTTAGAA GTCCGAAATG AACATTTTTG   900
GACCCTAGGT TTTGGCTCAT TGGCTGGATC AGTGCATGTA AGAATTCGAC GAGATGCCAA   960
TGAACAAATG GTTCTTGCTC ATGTGACCAA CAGGCTGTAC ACTCTAGTGT CTACTCTAAC  1020
TGTTCAAATT TTCAAGGATG ACTGGATTAG GCCTGCCTTA TTGTCTGGGC CTGTTGCAGC  1080
CAATGTCCTA AACTTTTCAG ATCATCACGT AATCCCAATG CCTCTTTTAA AGGGTACTGA  1140
TGATTTGAAC CCAGTTACAT CAACTCCAGC TAAACCTAGT AGTCCACCTC CAGAATTTTC  1200
ATTTAACACT CCTGGGAAAA ATGTGAACCC AGTTATTCTT CTAAACACAC AAACAAGGCC  1260
TTATGGTTTT GGTCTCAATC ATGGACACAC ACCTTACAGC AGCATGCTTA ATCAAGGACT  1320
TGGAGTTCCA GGAATTGGAG CAACTCAAGG ATTGAGGACT GGTTTTACAA ATATACCAAG  1380
TAGATATGGA ACTAATAATA GAATTGGACA ACCAAGACCA TGATAGACTC TAACTTATTT  1440
TTATAAGGAA TATTGACTCC TTGGCTTCCA ATTTATTTAG TAATCCAACT TTGCATTGAC  1500
TGTTTAATCA TTTACTCTAA ATGTTAGATA ATAGTAGTCT TGTTCACATT TCATGAAACC  1560
TATGAAACTA TATTTTTGTA AAATGTATTT GTGACAGTGA AATCCTCGTA AATGTTAAAG  1620
GCTTTAAATA GGCTTCCTTT AGAAAATGTG TTTCTTTAAA TTTGGATTTT GGTATCTTTG  1680
GTTTTGTAGT TGACTGCAGT GTGATGTGAC CTTACCTTTA TAAGAGCCAC TTGATGGAGT  1740
AGATCTGTCA CATTACTAAG ATACGATATT TCTTTTTTTT TCCGAGACGG AGTCTTGCTC  1800
TGCCACTGTG CCCGGCCAAT ACATTATTAT TAACTTAAGG CTGTACTTTA TTAAGGCTTC  1860
CTTAGTTTTT GTTTTGTTTT GTTTTTTGAG ATGGAGTCTC ACTCTGTCGC CCAGGCTGGA  1920
ATGCAGTGGC ATGATCTCAG CTCACTGCAA CCTCTGCCTC CTGAGTTCAA ATGATTCTCC  1980
TGCCTCAGCC TCCCGAGTAG CTGGGATTAC AGGCACCTGC CACCACGCCC AGCTAATTTT  2040
TGTATTTTTA GTAAAGACGG GGGATTTCAC CATGTTGGCC AGGCTGGTCT TGAACTCCTG  2100
ACCTCATGAT CCACCCACCT TAGCCTCCCA AAGTGCTGGG ATTAGGTGTG AGCCACCGCA  2160
CCTGGCCGAT ATTTTCTTTA ATGAAATTTA TAAATATGCT TCTTGAATAA TACACATTTT  2220
GGGAAAGGGA AAAATGTCTG TTCAAAAAGT AAAGGTCTCT TTTATAGCTT TTCCAAACTT  2280
AATTGCTAAA TTTTTCTTTG AGGTTCTCCT GAATTATGTC TTACAAACTA AAAGCAAAAA  2340
TTTTTAGCAG AAATTTTGGA ATACATTCTA TCTAGCACAA TTTGAATTTT TAATTATCAA  2400
GATTTTTGTT AAAGTTTCTC TCCTTTAAAA ATTTTAGTAC ATTTGTAAAT

Seq ID NO: 483 Protein sequence
Protein Accession #: BAB70980.1

1          11         21         31         41         51
|          |          |          |          |          |
MGTIHLFRKP QRSFFGKLLR EFRLVAADRR SWKILLFGVI NLICTGFLLM WCSSTNSIAL    60
TAYTYLTIFD LFSLMTCLIS YWVTLRKPSP VYSFGFERLE VLAVFASTVL AQLGALFILK   120
ESAERFLEQP EIHTGRLLVG TFVALCFNLF TMLSIRNKPF AYVSEAASTS WLQEHVADLS   180
RSLCGIIPGL SSIFLPRMNP FVLIDLAGAF ALCITYMLIE INNYFAVDTA SAIAIALMTF   240
GTMYPMSVYS GKVLLQTTPP HVIGQLDKLI REVSTLDGVL EVRNEHFWTL GFGSLAGSVH   300
VRIRRDANEQ MVLAHVTNRL YTLVSTLTVQ IFKDDWIRPA LLSGPVAANV LNFSDHHVIP   360
MPLLKGTDDL NPVTSTPAKP SSPPPEFSFN TPGKNVNPVI LLNTQTRPYG FGLNHGHTPY   420
SSMLNQGLGV PGIGATQGLR TGFTNIPSRY GTNNRIGQPR P

Seq ID NO: 484 DNA sequence
Nucleic Acid Accession #:  FGENESH predicted
Coding sequence: 1..900

1          11         21         31         41         51
|          |          |          |          |          |
ATGCCGCCGC GGGAGCTGAG CGAGGCCGAG CCGCCCCCGC TCCGGGCCCC GACCCCTCCC    60
CCGCGGCGGC GTAGCGCGCC CCCAGAGCTG GGCATCAAGT GCGTGCTGGT GGGCGACGGC   120
GCCGTGGGCA AGAGCAGCCT CATCGTCAGC TACACCTGCA ATGGGTACCC CGCGCGCTAC   180
CGGCCCACTG CGCTGGACAC CTTCTCTGGT ACGTACGTTC AATCGCCCGT GCGGCCGCGT   240
GGCTGCGGCG GGGCTGTGCA CCGGGGAGCT GGGGCGGGCG TCTCGGCGGG AGGGCGCAGA   300
GGACCCCGGG GAGGAGACTG GAGCAGGCCC CGAGGTGGCG CTGGTGCGGC CCAGGACGCT   360
CTTCCTAACT CAGGCTCTCC CCGCCCCGCC CCTGCAGTGC AAGTCCTGGT GGATGGAGCT   420
CCGGTGCGCA TTGAGCTCTG GGACACAGCG GGACAGGAGG ATTTTGACCG ACTTCGTTCC   480
CTTTGCTACC CGGATACCGA TGTCTTCCTG GCGTGCTTCA GCGTGGTGCA GCCCAGCTCC   540
TTTCAAAACA TCACAGAGAA ATGGCTGCCC GAGATCCGCA CGCACAACCC CCAGGCGCCT   600
GTGCTGCTGG TGGGCACCCA GGCCGACCTG AGGGACGATG TCAACGTACT AATTCAGCTG   660
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GACCAGGGGG GCCGGGAGGG CCCCGTGCCC CAACCCCAGG CTCAGGGTCT GGCCGAGAAG   720
ATCCGAGCCT GCTGCTACCT TGAGTGCTCA GCCTTGACGC AGAAGAACTT GAAGGAAGTA   780
TTTGACTCGG CTATTCTCAG TGCCATTGAG CACAAAGCCC GGCTGGAGAA GAAACTGAAT   840
GCCAAAGGTG TGCGCACCCT CTCCCGCTGC CGCTGGAAGA AGTTCTTCTG CTTCGTTTGA

Seq ID NO: 485 Protein sequence
Protein Accession #: FGENESH predicted

1          11         21         31         41         51
|          |          |          |          |          |
MPPRELSEAE PPPLRAPTPP PRRRSAPPEL GIKCVLVGDG AVGKSSLIVS YTCNGYPARY    60
RPTALDTFSG TYVQSPVRPR GCGGAVHRGA GAGVSAGGRR GPRGGDWSRP RGGAGAAQDA   120
LPNSGSPRPA PAVQVLVDGA PVRIELWDTA GQEDFDRLRS LCYPDTDVFL ACFSVVQPSS   180
FQNITEKWLP EIRTHNPQAP VLLVGTQADL RDDVNVLIQL DQGGREGPVP QPQAQGLAEK   240
IRACCYLECS ALTQKNLKEV FDSAILSAIE HKARLEKKLN AKGVRTLSRC RWKKFFCFV

Seq ID NO: 486 DNA sequence
Nucleic Acid Accession #:  XM_063832.2
Coding sequence: 1..711

1          11         21         31         41         51
|          |          |          |          |          |
ATGCCGCCGC GGGAGCTGAG CGAGGCCGAG CCGCCCCCGC TCCGGGCCCC GACCCCTCCC    60
CCGCGGCGGC GTAGCGCGCC CCCAGAGCTG GGCATCAAGT GCGTGCTGGT GGGCGACGGC   120
GCCGTGGGCA AGAGCAGCCT CATCGTCAGC TACACCTGCA ATGGGTACCC CGCGCGCTAC   180
CGGCCCACTG CGCTGGACAC CTTCTCTGTG CAAGTCCTGG TGGATGGAGC TCCGGTGCGC   240
ATTGAGCTCT GGGACACAGC GGGACAGGAG GATTTTGACC GACTTCGTTC CCTTTGCTAC   300
CCGGATACCG ATGTCTTCCT GGCGTGCTTC AGCGTGGTGC AGCCCAGCTC CTTTCAAAAC   360
ATCACAGAGA AATGGCTGCC CGAGATCCGC ACGCACAACC CCCAGGCGCC TGTGCTGCTG   420
GTGGGCACCC AGGCCGACCT GAGGGACGAT GTCAACGTAC TAATTCAGCT GGACCAGGGG   480
GGCCGGGAGG GCCCCGTGCC CCAACCCCAG GCTCAGGGTC TGGCCGAGAA GATCCGAGCC   540
TGCTGCTACC TTGAGTGCTC AGCCTTGACG CAGAAGAACT TGAAGGAAGT ATTTGACTCG   600
GCTATTCTCA GTGCCATTGA GCACAAAGCC CGGCTGGAGA AGAAACTGAA TGCCAAAGGT   660
GTGCGCACCC TCTCCCGCTG CCGCTGGAAG AAGTTCTTCT GCTTCGTTTG A

Seq ID NO: 487 Protein sequence
Protein Accession #: XP_063832.1

1          11         21         31         41         51
|          |          |          |          |          |
MPPRELSEAE PPPLRAPTPP PRRRSAPPEL GIKCVLVGDG AVGKSSLIVS YTCNGYPARY    60
RPTALDTFSV QVLVDGAPVR IELWDTAGQE DFDRLRSLCY PDTDVFLACF SVVQPSSFQN   120
ITEKWLPEIR THNPQAPVLL VGTQADLRDD VNVLIQLDQG GREGPVPQPQ AQGLAEKIRA   180
CCYLECSALT QKNLKEVFDS AILSAIEHKA RLEKKLNAKG VRTLSRCRWK KFFCFV

Seq ID NO: 488 DNA sequence
Nucleic Acid Accession #:  NM_014398.1
Coding sequence: 64..1314

1          11         21         31         41         51
|          |          |          |          |          |
GGCACCGATT CGGGGCCTGC CCGGACTTCG CCGCACGCTG CAGAACCTCG CCCAGCGCCC    60
ACCATGCCCC GGCAGCTCAG CGCGGCGGCC GCGCTCTTCG CGTCCCTGGC CGTAATTTTG   120
CACGATGGCA GTCAAATGAG AGCAAAAGCA TTTCCAGAAA CCAGAGATTA TTCTCAACCT   180
ACTGCAGCAG CAACAGTACA GGACATAAAA AAACCTGTCC AGCAACCAGC TAAGCAAGCA   240
CCTCACCAAA CTTTAGCAGC AAGATTCATG GATGGTCATA TCACCTTTCA AACAGCGGCC   300
ACAGTAAAAA TTCCAACAAC TACCCCAGCA ACTACAAAAA ACACTGCAAC CACCAGCCCA   360
ATTACCTACA CCCTGGTCAC AACCCAGGCC ACACCCAACA ACTCACACAC AGCTCCTCCA   420
GTTACTGAAG TTACAGTCGG CCCTAGCTTA GCCCCTTATT CACTGCCACC CACCATCACC   480
CCACCAGCTC ATACAGCTGG AACCAGTTCA TCAACCGTCA GCCACACAAC TGGGAACACC   540
ACTCAACCCA GTAACCAGAC CACCCTTCCA GCAACTTTAT CGATAGCACT GCACAAAAGC   600
ACAACCGGTC AGAAGCCTGA TCAACCCACC CATGCCCCAG GAACAACGGC AGCTGCCCAC   660
AATACCACCC GCACAGCTGC ACCTGCCTCC ACGGTTCCTG GGCCCACCCT TGCACCTCAG   720
CCATCGTCAG TCAAGACTGG AATTTATCAG GTTCTAAACG GAAGCAGACT CTGTATAAAA   780
GCAGAGATGG GGATACAGCT GATTGTTCAA GACAAGGAGT CGGTTTTTTC ACCTCGGAGA   840
TACTTCAACA TCGACCCCAA CGCAACGCAA GCCTCTGGGA ACTGTGGCAC CCGAAAATCC   900
AACCTTCTGT TGAATTTTCA GGGCGGATTT GTGAATCTCA CATTTACCAA GGATGAAGAA   960
TCATATTATA TCAGTGAAGT GGGAGCCTAT TTGACCGTCT CAGATCCAGA GACAGTTTAC  1020
CAAGGAATCA AACATGCGGT GGTGATGTTC CAGACAGCAG TCGGGCATTC CTTCAAGTGC  1080
GTGAGTGAAC AGAGCCTCCA GTTGTCAGCC CACCTGCAGG TGAAAACAAC CGATGTCCAA  1140
CTTCAAGCCT TTGATTTTGA AGATGACCAC TTTGGAAATG TGGATGAGTG CTCGTCTGAC  1200
TACACAATTG TGCTTCCTGT GATTGGGGCC ATCGTGGTTG GTCTCTGCCT TATGGGTATG  1260
GGTGTCTATA AAATCCGCCT AAGGTGTCAA TCATCTGGAT ACCAGAGAAT CTAATTGTTG  1320
CCCGGGGGGA ATGAAAATAA TGGAATTTAG AGAACTCTTT CATCCCTTCC AGGATGGATG  1380
TTGGGAAATT CCCTCAGAGT GTGGGTCCTT CAAACAATGT AAACCACCAT CTTCTATTCA  1440
AATGAAGTGA GTCATGTGTG ATTTAAGTTC AGGCAGCACA TCAATTTCTA AATACTTTTT  1500
GTTTATTTTA TGAAAGATAT AGTGAGCTGT TTATTTTCTA GTTTCCTTTA GAATATTTTA  1560
GCCACTCAAA GTCAACATTT GAGATATGTT GAATTAACAT AATATATGTA AAGTAGAATA  1620
AGCCTTCAAA TTATAAACCA AGGGTCAATT GTAACTAATA CTACTGTGTG TGCATTGAAG  1680
ATTTTATTTT ACCCTTGATC TTAACAAAGC CTTTGCTTTG TTATCAAATG GACTTTCAGT  1740
GCTTTTACTA TCTGTGTTTT ATGGTTTCAT GTAACATACA TATTCCTGGT GTAGCACTTA  1800
ACTCCTTTTC CACTTTAAAT TTGTTTTTGT TTTTTGAGAC GGAGTTTCAC TCTTGTCACC  1860
CAGGCTGGAG TACAGTGGCA CGATCTCGGC TTATGGCAAC CTCCGCCTCC CGGGTTCAAG  1920
TGATTCTCCT GCTTCAGCTT CCCGAGTAGC TGGGATTACA GGCACACACT ACCACGCCTG  1980
GCTAATTTTT GTATTTTTAT TATAGACGGG TTTCACCATG TTGGCCAGAC TGGTCTTGAA  2040
CTCTTGACCT CAGGTGATCC ACCCACCTCA GCCTCCCAAA GTGCTGGGAT TACAGGCATG  2100
AGCCATTGCG CCCGGCCTTA AATGTTTTTT TTAATCATCA AAAAGAACAA CATATCTCAG  2160
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GTTGTCTAAG TGTTTTTATG TAAAACCAAC AAAAAGAACA AATCAGCTTA TATTTTTTAT  2220
CTTGATGACT CCTGCTCCAG AATTGCTAGA CTAAGAATTA GGTGGCTACA GATGGTAGAA  2280
CTAAACAATA AGCAAGAGAC AATAATAATG GCCCTTAATT ATTAACAAAG TGCCAGAGTC  2340
TAGGCTAAGC ACTTTATCTA TATCTCATTT CATTCTCACA ACTTATAAGT GAATGAGTAA  2400
ACTGAGACTT AAGGGAACTG AATCACTTAA ATGTCACCTG GCTAACTGAT GGCAGAGCCA  2460
GAGCTTGAAT TCATGTTGGT CTGACATCAA GGTCTTTGGT CTTCTCCCTA CACCAAGTTA  2520
CCTACAAGAA CAATGACACC ACACTCTGCC TGAAGGCTCA CACCTCATAC CAGCATACGC  2580
TCACCTTACA GGGAAATGGG TTTATCCAGG ATCATGAGAC ATTAGGGTAG ATGAAAGGAG  2640
AGCTTTGCAG ATAACAAAAT AGCCTATCCT TAATAAATCC TCCACTCTCT GGAAGGAGAC  2700
TGAGGGGCTT TGTAAAACAT TAGTCAGTTG CTCATTTTTA TGGGATTGCT TAGCTGGGCT  2760
GTAAAGATGA AGGCATCAAA TAAACTCAAA GTATTTTTAA ATTTTTTTGA TAATAGAGAA  2820
ACTTCGCTAA CCAACTGTTC TTTCTTGAGT GTATAGCCCC ATCTTGTGGT AACTTGCTGC  2880
TTCTGCACTT CATATCCATA TTTCCTATTG TTCACTTTAT TCTGTAGAGC AGCCTGCCAA  2940
GAATTTTATT TCTGCTGTTT TTTTTGCTGC TAAAGAAAGG AACTAAGTCA GGATGTTAAC  3000
AGAAAAGTCC ACATAACCCT AGAATTCTTA GTCAAGGAAT AATTCAAGTC AGCCTAGAGA  3060
CCATGTTGAC TTTCCTCATG TGTTTCCTTA TGACTCAGTA AGTTGGCAAG GTCCTGACTT  3120
TAGTCTTAAT AAAACATTGA ATTGTAGTAA AGGTTTTTGC AATAAAAACT TACTTTGG
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Seq ID NO: 489 Protein sequence
Protein Accession #: NP_055213.1

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1           11          21          31          41          51
|           |           |           |           |           |
MPRQLSAAAA LFASLAVILH DGSQMRAKAF PETRDYSQPT AAATVQDIKK PVQQPAKQAP    60
HQTLAARFMD GHITFQTAAT VKIPTTTPAT TKNTATTSPI TYTLVTTQAT PNNSHTAPPV   120
TEVTVGPSLA PYSLPPTITP PAHTAGTSSS TVSHTTGNTT QPSNQTTLPA TLSIALHKST   180
TGQKPDQPTH APGTTAAAHN TTRTAAPAST VPGPTLAPQP SSVKTGIYQV LNGSRLCIKA   240
EMGIQLIVQD KESVFSPRRY FNIDPNATQA SGNCGTRKSN LLLNFQGGFV NLTFTKDEES   300
YYISEVGAYL TVSDPETVYQ GIKHAVVMFQ TAVGHSFKCV SEQSLQLSAH LQVKTTDVQL   360
QAFDFEDDHF GNVDECSSDY TIVLPVIGAI VVGLCLMGMG VYKIRLRCQS SGYQRI
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Seq ID NO: 490 DNA sequence
Nucleic Acid Accession #: NM_005409.3
Coding sequence: 94..378

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1           11          21          31          41          51
|           |           |           |           |           |
TTCCTTTCAT GTTCAGCATT TCTACTCCTT CCAAGAAGAG CAGCAAAGCT GAAGTAGCAG    60
CAACAGCACC AGCAGCAACA GCAAAAAACA AACATGAGTG TGAAGGGCAT GGCTATAGCC   120
TTGGCTGTGA TATTGTGTGC TACAGTTGTT CAAGGCTTCC CCATGTTCAA AAGAGGACGC   180
TGTCTTTGCA TAGGCCCTGG GGTAAAAGCA GTGAAAGTGG CAGATATTGA GAAAGCCTCC   240
ATAATGTACC CAAGTAACAA CTGTGACAAA ATAGAAGTGA TTATTACCCT GAAAGAAAAT   300
AAAGGACAAC GATGCCTAAA TCCCAAATCG AAGCAAGCAA GGCTTATAAT CAAAAAAGTT   360
GAAAGAAAGA ATTTTTAAAA ATATCAAAAC ATATGAAGTC CTGGAAAAGG GCATCTGAAA   420
AACCTAGAAC AAGTTTAACT GTGACTACTG AAATGACAAG AATTCTACAG TAGGAAACTG   480
AGACTTTTCT ATGGTTTTGT GACTTTCAAC TTTTGTACAG TTATGTGAAG GATGAAAGGT   540
GGGTGAAAGG ACCAAAAACA GAAATACAGT CTTCCTGAAT GAATGACAAT CAGAATTCCA   600
CTGCCCAAAG GAGTCCAGCA ATTAAATGGA TTTCTAGGAA AAGCTACCTT AAGAAAGGCT   660
GGTTACCATC GGAGTTTACA AAGTGCTTTC ACGTTCTTAC TTGTTGTATT ATACATTCAT   720
GCATTTCTAG GCTAGAGAAC CTTCTAGATT TGATGCTTAC AACTATTCTG TTGTGACTAT   780
GAGAACATTT CTGTCTCTAG AAGTTATCTG TCTGTATTGA TCTTTATGCT ATATTACTAT   840
CTGTGGTTAC AGTGGAGACA TTGACATTAT TACTGGAGTC AAGCCCTTAT AAGTCAAAAG   900
CATCTATGTG TCGTAAAGCA TTCCTCAAAC ATTTTTTCAT GCAAATACAC ACTTCTTTCC   960
CCAAATATCA TGTAGCACAT CAATATGTAG GGAAACATTC TTATGCATCA TTTGGTTTGT  1020
TTTATAACCA ATTCATTAAA TGTAATTCAT AAAATGTACT ATGAAAAAAA TTATACGCTA  1080
TGGGATACTG GCAACAGTGC ACATATTTCA TAACCAAATT AGCAGCACCG GTCTTAATTT  1140
GATGTTTTTC AACTTTTATT CATTGAGATG TTTTGAAGCA ATTAGGATAT GTGTGTTTAC  1200
TGTACTTTTT GTTTTGATCC GTTTGTATAA ATGATAGCAA TATCTTGGAC ACATTTGAAA  1260
TACAAAATGT TTTTGTCTAC CAAAGAAAAA TGTTGAAAAA TAAGCAAATG TATACCTAGC  1320
AATCACTTTT ACTTTTTGTA ATTCTGTCTC TTAGAAAAAT ACATAATCTA ATCAATTTCT  1380
TTGTTCATGC CTATATACTG TAAAATTTAG GTATACTCAA GACTAGTTTA AAGAATCAAA  1440
GTCATTTTTT TCTCTAATAA ACTACCACAA CCTTTCTTTT TTAAAAAAAA AAA
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Seq ID NO: 491 Protein sequence
Protein Accession #: NP_005400.1

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1           11          21          31          41          51
|           |           |           |           |           |
MSVKGMAIAL AVILCATVVQ GFPMFKRGRC LCIGPGVKAV KVADIEKASI MYPSNNCDKI    60
EVIITLKENK GQRCLNPKSK QARLIIKKVE RKNF
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Seq ID NO: 492 DNA sequence
Nucleic Acid Accession #: NM_000577.1
Coding sequence: 41..520

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1           11          21          31          41          51
|           |           |           |           |           |
GGCACGAGGG GAAGACCTCC TGTCCTATCA GGCCCTCCCC ATGGCTTTAG AGACGATCTG    60
CCGACCCTCT GGGAGAAAAT CCAGCAAGAT GCAAGCCTTC AGAATCTGGG ATGTTAACCA   120
GAAGACCTTC TATCTGAGGA ACAACCAACT AGTTGCCGGA TACTTGCAAG GACCAAATGT   180
CAATTTAGAA GAAAAGATAG ATGTGGTACC CATTGAGCCT CATGCTCTGT TCTTGGGAAT   240
CCATGGAGGG AAGATGTGCC TGTCCTGTGT CAAGTCTGGT GATGAGACCA GACTCCAGCT   300
GGAGGCAGTT AACATCACTG ACCTGAGCGA GAACAGAAAG CAGGACAAGC GCTTCGCCTT   360
CATCCGCTCA GACAGTGGCC CCACCACCAG TTTTGAGTCT GCCGCCTGCC CCGGTTGGTT   420
CCTCTGCACA GCGATGGAAG CTGACCAGCC CGTCAGCCTC ACCAATATGC CTGACGAAGG   480
CGTCATGGTC ACCAAATTCT ACTTCCAGGA GGACGAGTAG TACTGCCCAG GCCTGCCTGT   540
TCCCATTCTT GCATGGCAAG GACTGCAGGG ACTGCCAGTC CCCCTGCCCC AGGGCTCCCG   600
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GCTATGGGGG CACTGAGGAC CAGCCATTGA GGGGTGGACC CTCAGAAGGC GTCACAACAA   660
CCTGGTCACA GGACTCTGCC TCCTCTTCAA CTGACCAGCC TCCATGCTGC CTCCAGAATG   720
GTCTTTCTAA TGTGTGAATC AGAGCACAGC AGCCCCTGCA CAAAGCCCTT CCATGTCGCC   780
TCTGCATTCA GGATCAAACC CCGACCACCT GCCCAACCTG CTCTCCTCTT GCCACTGCCT   840
CTTCCTCCCT CATTCCACCT TCCCATGCCC TGGATCCATC AGGCCACTTG ATGACCCCCA   900
ACCAAGTGGC TCCCACACCC TGTTTTACAA AAAAGAAAAG ACCAGTCCAT GAGGGAGGTT   960
TTTAAGGGTT TGTGGAAAAT GAAAATTAGG ATTTCATGAT TTTTTTTTTT CAGTCCCCGT  1020
GAAGGAGAGC CCTTCATTTG GAGATTATGT TCTTTCGGGG AGAGGCTGAG GACTTAAAAT  1080
ATTCCTGCAT TTGTGAAATG ATGGTGAAAG TAAGTGGTAG CTTTTCCCTT CTTTTTCTTC  1140
TTTTTTTGTG ATGTCCCAAC TTGTAAAAAT TAAAAGTTAT GGTACTATGT TAGCCCCATA  1200
ATTTTTTTTT TCCTTTTAAA ACACTTCCAT AATCTGGACT CCTCTGTCCA GGCACTGCTG  1260
CCCAGCCTCC AAGCTCCATC TCCACTCCAG ATTTTTTACA GCTGCCTGCA GTACTTTACC  1320
TCCTATCAGA AGTTTCTCAG CTCCCAAGGC TCTGAGCAAA TGTGGCTCCT GGGGGTTCTT  1380
TCTTCCTCTG CTGAAGGAAT AAATTGCTCC TTGACATTGT AGAGCTTCTG GCACTTGGAG  1440
ACTTGTATGA AAGATGGCTG TGCCTCTGCC TGTCTCCCCC ACCAGGCTGG GAGCTCTGCA  1500
GAGCAGGAAA CATGACTCGT ATATGTCTCA GGTCCCTGCA GGGCCAAGCA CCTAGCCTCG  1560
CTCTTGGCAG GTACTCAGCG AATGAATGCT GTATATGTTG GGTGCAAAGT TCCCTACTTC  1620
CTGTGACTTC AGCTCTGTTT TACAATAAAA TCTTGAAAAT GCCTAAAAAA AAAAAAAAAA  1680
AAAAAAAAAA AAAAAAAAAA AAAAAAAAAA AAAAAA
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Seq ID NO: 493 Protein sequence
Protein Accession #: NP_000568.1

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1           11          21          31          41          51
|           |           |           |           |           |
MALETICRPS GRKSSKMQAF RIWDVNQKTF YLRNNQLVAG YLQGPNVNLE EKIDVVPIEP    60
HALFLGIHGG KMCLSCVKSG DETRLQLEAV NITDLSENRK QDKRFAFIRS DSGPTTSFES   120
AACPGWFLCT AMEADQPVSL TNMPDEGVMV TKFYFQEDE
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Seq ID NO: 494 DNA sequence
Nucleic Acid Accession #: NM_002081.1
Coding sequence: 222..1898

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1           11          21          31          41          51
|           |           |           |           |           |
GGCTGCCCGA GCGAGCGTTC GGACCTCGCA CCCCGCGCGC CCCGCGCCGC CGCCGCCGCC    60
GGCTTTTGTT GTCTCCGCCT CCTCGGCCGC CGCCGCCTCT GGACCGCGAG CCGCGCGCGC   120
CGGGACCTTG GCTCTGCCCT TCGCGGGCGG GAACTGCGCA GGACCCGGCC AGGATCCGAG   180
AGAGGCGCGG GCGGGTGGCC GGGGGCGCCG CCGGCCCCGC CATGGAGCTC CGGGCCCGAG   240
GCTGGTGGCT GCTATGTGCG GCCGCAGCGC TGGTCGCCTG CGCCCGCGGG GACCCGGCCA   300
GCAAGAGCCG GAGCTGCGGC GAGGTCCGCC AGATCTACGG AGCCAAGGGC TTCAGCCTGA   360
GCGACGTGCC CCAGGCGGAG ATCTCGGGTG AGCACCTGCG GATCTGTCCC CAGGGCTACA   420
CCTGCTGCAC CAGCGAGATG GAGGAGAACC TGGCCAACCG CAGCCATGCC GAGCTGGAGA   480
CCGCGCTCCG GGACAGCAGC CGCGTCCTGC AGGCCATGCT TGCCACCCAG CTGCGCAGCT   540
TCGATGACCA CTTCCAGCAC CTGCTGAACG ACTCGGAGCG GACGCTGCAG GCCACCTTCC   600
CCGGCGCCTT CGGAGAGCTG TACACGCAGA ACGCGAGGGC CTTCCGGGAC CTGTACTCAG   660
AGCTGCGCCT GTACTACCGC GGTGCCAACC TGCACCTGGA GGAGACGCTG GCCGAGTTCT   720
GGGCCCGCCT GCTCGAGCGC CTCTTCAAGC AGCTGCACCC CCAGCTGCTG CTGCCTGATG   780
ACTACCTGGA CTGCCTGGGC AAGCAGGCCG AGGCGCTGCG GCCCTTCGGG GAGGCCCCGA   840
GAGAGCTGCG CCTGCGGGCC ACCCGTGCCT TCGTGGCTGC TCGCTCCTTT GTGCAGGGCC   900
TGGGCGTGGC CAGCGACGTG GTCCGGAAAG TGGCTCAGGT CCCCCTGGGC CCGGAGTGCT   960
CGAGAGCTGT CATGAAGCTG GTCTACTGTG CTCACTGCCT GGGAGTCCCC GGCGCCAGGC  1020
CCTGCCCTGA CTATTGCCGA AATGTGCTCA AGGGCTGCCT TGCCAACCAG GCCGACCTGG  1080
ACGCCGAGTG GAGGAACCTC CTGGACTCCA TGGTGCTCAT CACCGACAAG TTCTGGGGTA  1140
CATCGGGTGT GGAGAGTGTC ATCGGCAGCG TGCACACGTG GCTGGCGGAG GCCATCAACG  1200
CCCTCCAGGA CAACAGGGAC ACGCTCACGG CCAAGGTCAT CCAGGGCTGC GGGAACCCCA  1260
AGGTCAACCC CCAGGGCCCT GGGCCTGAGG AGAAGCGGCG CCGGGGCAAG CTGGCCCCGC  1320
GGGAGAGGCC ACCTTCAGGC ACGCTGGAGA AGCTGGTCTC TGAAGCCAAG GCCCAGCTCC  1380
GCGACGTCCA GGACTTCTGG ATCAGCCTCC CAGGGACACT GTGCAGTGAG AAGATGGCCC  1440
TGAGCACTGC CAGTGATGAC CGCTGCTGGA ACGGGATGGC CAGAGGCCGG TACCTCCCCG  1500
AGGTCATGGG TGACGGCCTG GCCAACCAGA TCAACAACCC CGAGGTGGAG GTGGACATCA  1560
CCAAGCCGGA CATGACCATC CGGCAGCAGA TCATGCAGCT GAAGATCATG ACCAACCGGC  1620
TGCGCAGCGC CTACAACGGC AACGACGTGG ACTTCCAGGA CGCCAGTGAC GACGGCAGCG  1680
GCTCGGGCAG CGGTGATGGC TGTCTGGATG ACCTCTGCGG CCGGAAGGTC AGCAGGAAGA  1740
GCTCCAGCTC CCGGACGCCC TTGACCCATG CCCTCCCAGG CCTGTCAGAG CAGGAAGGAC  1800
AGAAGACCTC GGCTGCCAGC TGCCCCCAGC CCCCGACCTT CCTCCTGCCC CTCCTCCTCT  1860
TCCTGGCCCT TACAGTAGCC AGGCCCCGGT GGCGGTAACT GCCCCAAGGC CCCAGGGACA  1920
GAGGCCAAGG ACTGACTTTG CCAAAAATAC AACACAGACG ATATTTAATT CACCTCAGCC  1980
TGGAGAGGCC TGGGGTGGGA CAGGGAGGGC CGGCGGCTCT GAGCAGGGGC AGGCGCAGAG  2040
GTCCCAGCCC CAGGCCTGGC CTCGCCTGCC TTTCTGCCTT TTAATTTTGT ATGAGGTCCT  2100
CAGGTCAGCT GGGAGCCAGT GTGCCCAAAA GCCATGTATT TCAGGGACCT CAGGGGCACC  2160
TCCGGCTGCC TAGCCCTCCC CCCAGCTCCC TGCACCGCCG CAGAAGCAGC CCCTCGAGGC  2220
CTACAGAGGA GGCCTCAAAG CAACCCGCTG GAGCCCACAG CGAGCCTGTG CCTTCCTCCC  2280
CGCCTCCTCC CACTGGGACT CCCAGCAGAG CCCACCAGCC AGCCCTGGCC CACCCCCCAG  2340
CCTCCAGAGA AGCCCCGCAC GGGCTGTCTG GGTGTCCGCC ATCCAGGGTC TGGCAGAGCC  2400
TCTGAGATGA TGCATGATGC CCTCCCCCTCA GCGCAGGCTG CAGAGCCCGG CCCCACCTCC  2460
CTGCGCCCTT GAGGGGCCCC AGCGTCTGCA GGGTGACGCC TGAGACAGCA CCACTGCTGA  2520
GGAGTCTGAG GACTGTCCTC CCACAGACCC TGCAGTGAGG GGCCCTCCAT GCGCAGATGA  2580
GGGGCCACTG ACCCACCTGC GCTTCTGCTG GAGGAGGGGA AGCTGGGCCC AAAGGCCCAG  2640
GGAGGCAGCG TGGGCTCTGC CAATGTGGGC TGCCCCTCGC ACACAGGGCT CACAGGGCAG  2700
GCCTTGCTGG GGTCCAGGGC TGTTGGAGGA CCCCGAGGGC TGAGGAGCAG CCAGGACCCG  2760
CCTGCTCCCA TCCTCACCCA GATCAGGAAC CAGGGCCTCC CTGTTCACGG TGACACAGGT  2820
CAGGGCTCAG AGTGACCCTC GGCTGTCACC TGCTCACAGG GATGCTGGTG GCTGGTGAGA  2880
CCCCGCACTG CACACGGGAA TGCCTAGGTC CCTTCCCGAC CCAGCCAGCT GCACTGCAGG  2940
GCACGGGGAC CTGGATAGTT AAGGGCTTTT CCAAACATGC ATCCATTTAC TGACACTTCC  3000
TGTCCTTGTT CATGGAGAGC TGTTCGCTCC TCCCAGATGG CTTCGGAGGC CCGCAGGGCC  3060
CACCTTGGAC CCTGGTGACC TCCTGTCACT CACTGAGGCC ATCAGGGCCC TGCCCCAGGC  3120
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CTGGACGGGC CCTCCTTCCC TCCTGTGCCC CAGCTGCCAG GTGGCCCTGG GGAGGGGTGG  3180
TGTGGTGTTG GGAAGGGGTC CTGCAGGGGG AGGAGGACTT GGAGGGTCTG GGGGCAGCTG  3240
TCCTGAACCG ACTGACCCTG AGGAGGCCGC TTAGTGCTGC TTTGCTTTTC ATCACCGTCC  3300
CGCACAGTGG ACGGAGGTCC CCGGTTGCTG GTCAGGTCCC CATGGCTTGT TCTCTGGAAC  3360
CTGACTTTAG ATGTTTTGGG ATCAGGAGCC CCCAACACAG GCAAGTCCAC CCCATAATAA  3420
CCCTGCCAGT GCCAGGGTGG GCTGGGGACT CTGGCACAGT GATGCCGGGC GCCAGGACAG  3480
CAGCACTCCC GCTGCACACA GACGGCCTAG GGGTGGCGCT CAGACCCCAC CCTACGCTCA  3540
TCTCTGGAAG GGGCAGCCCT GAGTGGTCAC TGGTCAGGGC AGTGGCCAAG CCTGCTGTGT  3600
CCTTCCTCCA CAAGGTCCCC CCACCGCTCA GTGTCAGCGG GTGACGTGTG TTCTTTTGAG  3660
TCCTTGTATG AATAAAAGGC TGGAAACCTA AA
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Seq ID NO: 495 Protein sequence
Protein Accession #: NP_002072.1

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1           11          21          31          41          51
|           |           |           |           |           |
MELRARGWWL LCAAAALVAC ARGDPASKSR SCGEVRQIYG AKGFSLSDVP QAEISGEHLR    60
ICPQGYTCCT SEMEENLANR SHAELETALR DSSRVLQAML ATQLRSFDDH FQHLLNDSER   120
TLQATFPGAF GELYTQNARA FRDLYSELRL YYRGANLHLE ETLAEFWARL LERLFKQLHP   180
QLLLPDDYLD CLGKQAEALR PFGEAPRELR LRATRAFVAA RSFVQGLGVA SDVVRKVAQV   240
PLGPECSRAV MKLVYCAHCL GVPGARPCPD YCRNVLKGCL ANQADLDAEW RNLLDSMVLI   300
TDKFWGTSGV ESVIGSVHTW LAEAINALQD NRDTLTAKVI QGCGNPKVNP QGPGPEEKRR   360
RGKLAPRERP PSGTLEKLVS EAKAQLRDVQ DFWISLPGTL CSEKMALSTA SDDRCWNGMA   420
RGRYLPEVMG DGLANQINNP EVEVDITKPD MTIRQQIMQL KIMTNRLRSA YNGNDVDFQD   480
ASDDGSGSGS
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Seq ID NO: 496 DNA sequence
Nucleic Acid Accession #: NM_001650.2
Coding sequence: 40.1011

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1           11          21          31          41          51
|           |           |           |           |           |
GGGGCAGGCA ATGAGAGCTG CACTCTGGCT GGGGAAGGCA TGAGTGACAG ACCCACAGCA    60
AGGCGGTGGG GTAAGTGTGG ACCTTTGTGT ACCAGAGAGA ACATCATGGT GGCTTTCAAA   120
GGGGTCTGGA CTCAAGCTTT CTGGAAAGCA GTCACAGCGG AATTTCTGGC CATGCTTATT   180
TTTGTTCTCC TCAGCCTGGG ATCCACCATC AACTGGGGTG GAACAGAAAA GCCTTTACCG   240
GTCGACATGG TTCTCATCTC CCTTTGCTTT GGACTCAGCA TTGCAACCAT GGTGCAGTGC   300
TTTGGCCATA TCAGCGGTGG CCACATCAAC CCTGCAGTGA CTGTGGCCAT GGTGTGCACC   360
AGGAAGATCA GCATCGCCAA GTCTGTCTTC TACATCGCAG CCCAGTGCCT GGGGGCCATC   420
ATTGGAGCAG GAATCCTCTA TCTGGTCACA CCTCCCAGTG TGGTGGGAGG CCTGGGAGTC   480
ACCATGGTTC ATGGAAATCT TACCGCTGGT CATGGTCTCC TGGTTGAGTT GATAATCACA   540
TTTCAATTGG TGTTTACTAT CTTTGCCAGC TGTGATTCCA AACGGACTGA TGTCACTGGC   600
TCAATAGCTT TAGCAATTGG ATTTTCTGTT GCAATTGGAC ATTTATTTGC AATCAATTAT   660
ACTGGTGCCA GCATGAATCC CGCCCGATCC TTTGGACCTG CAGTTATCAT GGGAAATTGG   720
GAAAACCATT GGATATATTG GGTTGGGCCC ATCATAGGAG CTGTCCTCGC TGGTGGCCTT   780
TATGAGTATG TCTTCTGTCC AGATGTTGAA TTCAAACGTC GTTTTAAAGA AGCCTTCAGC   840
AAAGCTGCCC AGCAAACAAA AGGAAGCTAC ATGGAGGTGG AGGACAACAG GAGTCAGGTA   900
GAGACGGATG ACCTGATTCT AAAACCTGGA GTGGTGCATG TGATTGACGT TGACCGGGGA   960
GAGGAGAAGA AGGGGAAAGA CCAATCTGGA GAGGTATTGT CTTCAGTATG ACTAGAAGAT  1020
CGCACTGAAA GCAGACAAGA CTCCTTAGAA CTGTCCTCAG ATTTCCTTCC ACCCATTAAG  1080
GAAACAGATT TGTTATAAAT TAGAAATGTG CAGGTTTGTT GTTTCATGTC ATATTACTCA  1140
GTCTAAACAA TAAATATTTC ATAATTTACA AAGGAGGAAC GGAAGAAACC TATTGTGAAT  1200
TCCAAATCTA AAAAAAGAAA TATTTTTAAG ATGTTCTTAA GCAAATATAT ACCTATTTTA  1260
TCTAGTTACC TTTCATTAAC AACCAATTTT AACCGTGTGT CAAGATTTGG TTAAGTCTTG  1320
CCTGACAGAA CTCAAAGACA CGTCTATCAG CTTATTCCTT CTCTACTGGA ATATTGGTAT  1380
AGTCAATTCT TATTTGAATA TTTATTCTAT TAAACTGAGT TTAACAATGG C
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Seq ID NO: 497 Protein sequence
Protein Accession #: NP_001641.1

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1           11          21          31          41          51
|           |           |           |           |           |
MSDRPTARRW GKCGPLCTRE NIMVAFKGVW TQAFWKAVTA EFLAMLIFVL LSLGSTINWG    60
GTEKPLPVDM VLISLCFGLS IATMVQCFGH ISGGHINPAV TVAMVCTRKI SIAKSVFYIA   120
AQCLGAIIGA GILYLVTPPS VVGGLGVTMV HGNLTAGHGL LVELIITFQL VFTIFASCDS   180
KRTDVTGSIA LAIGFSVAIG HLFAINYTGA SMNPARSFGP AVIMGNWENH WIYWVGPIIG   240
AVLAGGLYEY VFCPDVEFKR RFKEAFSKAA QQTKGSYMEV EDNRSQVETD DLILKPGVVH   300
VIDVDRGEEK KGKDQSGEVL SSV
```

Seq ID NO: 498 DNA sequence
Nucleic Acid Accession #: AB020684.1
Coding sequence: 1..1744

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1           11          21          31          41          51
|           |           |           |           |           |
CCCCCTTGTC ATTAATACAT TAAAAAGATT CAATCTTTAC CCTGAGGTAA TTTTGGCCAG    60
TTGGTACCGG ATTTATACCA AAATAATGGA CTTGATTGGT ATTCAAACCA AGATATGTTG   120
GACGGTTACC AGAGGAGAAG GACTCAGTCC TATTGAAAGC TGTGAAGGAT TGGGAGATCC   180
TGCTTGCTTT TATGTTGCTG TAATTTTTAT TTTAAATGGA CTAATGATGG CATTATTCTT   240
CATATATGGC ACATATTTAA GTGGCAGCCG ATTAGGAGGC CTGGTTACAG TGTTGTGCTT   300
CTTTTTCAAT CATGGAGAGT GTACCCGTGT AATGTGGACA CCACCTCTCC GTGAAAGCTT   360
CTCATATCCA TTTCTTGTTC TTCAGATGTT GCTAGTGACT CATATTCTCA GGGCTACAAA   420
ACTTTATAGA GGAAGCTTGA TTGCACTCTG CATTTCCAAT GTATTTTTCA TGCTTCCTTG   480
GCAGTTTGCT CAGTTTGTAC TTCTTACTCA GATTGCATCA TTATTTGCAG TATATGTTGT   540
CGGGTACATT GATATATGTA AATTACGGAA GATCATTTAT ATACACATGA TTTCTCTTGC   600
ACTTTGTTTT GTTTTGATGT TTGGGAACTC AATGTTATTA ACTTCTTATT ATGCTTCTTC   660
TTTGGTAATT ATTTGGGGTA TTCTGGCAAT GAAACCACAT TTCCTGAAAA TAAATGTATC   720
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TGAACTTAGT TTATGGGTTA TTCAAGGATG TTTTTGGTTA TTTGGAACTG TCATACTTAA   780
ATACTTGACA TCTAAAATTT TTGGTATTGC AGATGACGCT CATATTGGCA ACTTACTAAC   840
ATCAAAATTC TTTAGTTATA AGGATTTTGA TACTTTATTG TATACCTGTG CAGCGGAGTT   900
TGACTTTATG GAAAAAGAGA CTCCACTGAG ATACACAAAG ACATTATTGC TTCCAGTTGT   960
TCTTGTAGTG TTTGTTGCTA TTGTTAGAAA GATTATTAGT GATATGTGGG GTGTCTTAGC  1020
TAAACAACAG ACACATGTAA GAAAACACCA GTTTGATCAT GGAGAGCTGG TTTACCATGC  1080
ATTGCAATTG TTAGCATATA CAGCCCTTGG TATTTTAATT ATGAGACTAA AACTCTTCTT  1140
GACACCACAC ATGTGTGTTA TGGCATCACT GATCTGCTCA AGACAGCTAT TTGGATGGCT  1200
CTTTTGCAAA GTACATCCTG GTGCTATTGT GTTTGCTATA TTAGCAGCAA TGTCAATACA  1260
AGGTTCAGCA AATCTGCAAA CCCAGTGGAA TATTGTAGGG GAGTTCAGCA ATTTGCCCCA  1320
AGAAGAACTT ATAGAATGGA TCAAATATAG TACTAAACCA GATGCAGTGT TTGCGGGTGC  1380
CATGCCCACG ATGGCAAGTG TTAAGCTCTC TGCACTTCGG CCCATTGTGA ATCATCCACA  1440
TTATGAAGAC GCAGGCTTGA GAGCCAGAAC AAAAATAGTA TACTCAATGT ATAGTCGGAA  1500
AGCAGCCGAA GAAGTGAAGC GAGAACTGAT AAAGTTAAAA GTGAACTATT ACATTCTAGA  1560
AGAGTCATGG TGTGTAAGAA GATCCAAGCC TGGTTGCAGT ATGCCTGAAA TTTGGGATGT  1620
AGAAGATCCT GCCAATGCTG GGAAAACTCC CTTATGTAAC CTCTTGGTGA AGGATTCCAA  1680
ACCTCACTTC ACCACTGTAT TCCAGAACAG TGTTTACAAA GTCCTAGAAG TTGTAAAAGA  1740
ATGACTGCTA CATGACCTGC TGCCTACGGA GAACTACATC TGTAATGGTT TTAATGTTTT  1800
GCTAAGTCAT GTGTTGTTCA TATCCCAAAA ACTTTTATAG GTAACTGTTT TCAAATAGAA  1860
AACGTTTTAT TTGGTCAATT TGAATGTCAT TCTAATTATA AAAATGACTT ACACCTTTAT  1920
CAATTGGTTA CTATTTCAAT GCACCCTTTA AAATTTGCTA TGCAAATGAG TATATGCTTG  1980
TACTTGACTT TAATATTTGT GCTAAAGTGA GCAAAGCTAC CTGTATAAAG AAAACACAGT  2040
GGGTTGTGAC AAGGATGACA TGAAAATACA GGACAATTCT GACAATGTAG GGGCTGATTT  2100
TATAGTGTAA GAACTATTAA TGCCCCTTGC TTCTTTTTTC TGCCTCTTGC TCTTGTCTTT  2160
TGGACATTTC AGTGATTGTA AGTTCTTCGG TCATGTCAGC CCCTGTCATC AACTTGAGTT  2220
ACAGTAGATG GGGCAGACAT GGAGTGTTTG CTATATAAAA CTATCTGTTT GTTTTACTTC  2280
CTTGTGCGCT TTTTGTTCTC TGTTCTCTTG TTAATGAAGC TTTTCCTGCC CATTATTAAT  2340
CCAAACTCTT GGACCTTGTG GTTAGGAAAT TCCCTTAACT TCCAGCCATA TGGCATTATC  2400
GTGTCTCTTT CTCTCTCTCT CTTGCTCTCT CTCTTCTCCT CTTCCCCATA TTTTCTGTCA  2460
AATAAGTACT GTTTACTCAT TTAGTTGCTT ATCAAGTACT TATTCTTGGT TTTAAAAAAA  2520
ATTAATGGTA ACTGTATTTT TCTCATTTTT AGCATTATTC AAATGTTTAT ATTTTAATAC  2580
CTTTAAACCA CTTTAAAGTT TTTTCATGTT TAATTATAGT TTTAAGAAAA ACTATTTTGA  2640
ACAACCCCAA ATATAGTGCA TCTAGAAACT AATGTATATT TGATTAGACA TCATTTATAG  2700
TGGAACAGTA GACTGTAGTA CATGGTAATT TTTCTTTTAC TATTAAGATA CAATAAAACA  2760
TGACTAATTT TGCTGTCAAA AATGTAAAGA ATAATGATAA ATGGAGTTTT TTATATTTTA  2820
CTTTTAAGAT TGCCTGTCTT TAATAAGACA AAGCCTTAAG CCTTATGTTA TAATTTTGGT  2880
TCTAAAAACC ATCATTTCAG TATAAGGAAT AAGTATATTT CGTCCTCCTC TTTAGTTTTT  2940
TTCTTCCTAT TTATTTTTAT TTTGAAAAAT TTCTACACCT TCTTTGAATT CCTTGTATGA  3000
ATTTTTGTTT CTTAGAAGTT AATTTGTGTG AAATGAGATT CTTCAAAACG ATGAAACCTC  3060
ATAGCTCTGA GAAAAGGTTT TAGGGTTTTA AATTCTAAGC AAAGCGTGAC TATGGCTGAC  3120
AGACTACACA TTTAATTATA CAGCTTCTCT TTCTTAACCA CAGGCAGATT AACCTCATTG  3180
TGGATTGTCC TTCAGACCTT AGTCCCTCAGG CATGGTTTCT GGTGCCCACT CCTGGAAGCC  3240
GCTGTTCCCT TTCTACCTTC TTACCAGAGC CCAAGGGCAG GCCTGGTCCC GGGGAAGCAG  3300
CAGCTTGCTG ACATAAGTCA GCTGCAAAGG CTGAGGAGTG TGCCCTCAGA GAAGCACCGC  3360
CCCCCAGTCT TGTGCCAGCG CCTAGAGCCG CAGCTCCCAG GGATGCTCCT TCCCTGGAGG  3420
CAGCCCAGGA GAGGGACTCT GGCAGCGTTC TTCAGATTTG TGGCCACTGT TTCTCATTTG  3480
CTGGTTGACT GTTTTTATTT CTTAGGCTTT TGCTAGTTTT AGAAAATAGG GAAGCAGCCC  3540
TTGATTTGTG GATTAAAAGC AACATTTGAG CGATGATGCA CAACAGTCCA GGAAAATGGG  3600
CGGTGGACAC TTGAGGCTGA GGATGGGAGT TGACATGAGC AGGGAGAGGG AGGTGCGCGC  3660
TGCTTATCTG TGATTGTTGC TCACCTGAGT GTGGCTGATT GTGTACATCC AGCAGTTACA  3720
ATTTTTAAAA ATTATACTTT TACATTTATT TTATATTTTT CTCACCCCCA GTAATTTCCT  3780
TCCAAAGAAG TTCACATGTA ATAAGTAGAA ATTCTGTATA GGAAAAAAGC ATTAAAAATA  3840
CTATTATAAC TGCTTCATTT GCTGGGAACC ATTAAAAGTA ATATAAATTA GCTTTTTCCA  3900
GAAGGATCCT TTTGTAGCAG TGTTTATGAA TGTAACCCCC AGCAAAATAT GGCTATATAT  3960
TAGGGGAGCC AGTTTGGAGC AGAGGCCTGA AGGTCCCTGC TATGCAGCCG TGGCCACAGC  4020
TCGCAGCCCA AGCACTGTGG AGCATCCACA CCTTTGATGG CAATGCAGAT TGGTAGCAGG  4080
TTCCATAGGC GTACAAAACA GTATTAAAGC TCAGTGTTTT GCATATTGTT AGCATTTACA  4140
AATATTTTTG CTTTAGTATG AGGAAAGTAA GGATGGGCAA AGAAGCGATC AAAATAGCTA  4200
TTGCTACAAC ATTTTCGAAA ACAAAGTTGG GGCTGTATTT CTTTAAAAAG ATAAGCCTCT  4260
AAAAATGCTT GGCAAAAAAA ATATAGTGTT AAAATAGGCC AGTGATATTA ATGAGAAAAT  4320
GAAAGTATGT ATCAGGAATA AAGTGATATT GCATAGGAGT ATTGTATTTT TATGAATTTT  4380
ATGCCAGTTG TTTACATGTA CTATATATGT TAAATTAAAA AAAATCATGA GAAATG
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Seq ID NO: 499 Protein sequence
Protein Accession #: BAA74900.1

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1          11         21         31         41         51
|          |          |          |          |          |
PLVINTLKRF NLYPEVILAS WYRIYTKIMD LIGIQTKICW TVTRGEGLSP IESCEGLGDP    60
ACFYVAVIFI LNGLMMALFF IYGTYLSGSR LGGLVTVLCF FFNHGECTRV MWTPPLRESF   120
SYPFLVLQML LVTHILRATK LYRGSLIALC ISNVFFMLPW QFAQFVLLTQ IASLFAVYVV   180
GYIDICKLRK IIYIHMISLA LCFVLMFGNS MLLTSYYASS LVIIWGILAM KPHFLKINVS   240
ELSLWVIQGC FWLFGTVILK YLTSKIFGIA DDAHIGNLLT SKFFSYKDFD TLLYTCAAEF   300
DFMEKETPLR YTKTLLLPVV LVVFVAIVRK IISDMWGVLA KQQTHVRKHQ FDHGELVYHA   360
LQLLAYTALG ILIMRLKLFL TPHMCVMASL ICSRQLFGWL FCKVHPGAIV FAILAAMSIQ   420
GSANLQTQWN IVGEFSNLPQ EELIEWIKYS TKPDAVFAGA MPTMASVKLS ALRPIVNHPH   480
YEDAGLRART KIVYSMYSRK AAEEVKRELI KLKVNYYILE ESWCVRRSKP GCSMPEIWDV   540
EDPANAGKTP LCNLLVKDSK PHFTTVFQNS VYKVLEVVKE
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Seq ID NO: 500 DNA sequence
Nucleic Acid Accession #: NM_001276.1
Coding sequence: 127..1278

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1          11         21         31         41         51
|          |          |          |          |          |
AGTGGAGTGG GACAGGTATA TAAAGGAAGT ACAGGGCCTG GGGAAGAGGC CCTGTCTAGG    60
TAGCTGGCAC CAGGAGCCGT GGGCAAGGGA AGAGGCCACA CCCTGCCCTG CTCTGCTGCA   120
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GCCAGAATGG GTGTGAAGGC GTCTCAAACA GGCTTTGTGG TCCTGGTGCT GCTCCAGTGC   180
TGCTCTGCAT ACAAACTGGT CTGCTACTAC ACCAGCTGGT CCCAGTACCG GGAAGGCGAT   240
GGGAGCTGCT TCCCAGATGC CCTTGACCGC TTCCTCTGTA CCCACATCAT CTACAGCTTT   300
GCCAATATAA GCAACGATCA CATCGACACC TGGGAGTGGA ATGATGTGAC GCTCTACGGC   360
ATGCTCAACA CACTCAAGAA CAGGAACCCC AACCTGAAGA CTCTCTTGTC TGTCGGAGGA   420
TGGAACTTTG GGTCTCAAAG ATTTTCCAAG ATAGCCTCCA ACACCCAGAG TCGCCGGACT   480
TTCATCAAGT CAGTACCGCC ATTCCTGCGC ACCCATGGCT TTGATGGGCT GGACCTTGCC   540
TGGCTCTACC CTGGACGGAG AGACAAACAG CATTTTACCA CCCTAATCAA GGAAATGAAG   600
GCCGAATTTA TAAAGGAAGC CCAGCCAGGG AAAAAGCAGC TCCTGCTCAG CGCAGCACTG   660
TCTGCGGGGA AGGTCACCAT TGACAGCAGC TATGACATTG CCAAGATATC CCAACACCTG   720
GATTTCATTA GCATCATGAC CTACGATTTT CATGGAGCCT GGCGTGGGAC CACAGGCCAT   780
CACAGTCCCC TGTTCCGAGG TCAGGAGGAT GCAAGTCCTG ACAGATTCAG CAACACTGAC   840
TATGCTGTGG GGTACATGTT GAGGCTGGGG GCTCCTGCCA GTAAGCTGGT GATGGGCATC   900
CCCACCTTCG GGAGGAGCTT CACTCTGGCT TCTTCTGAGA CTGGTGTTGG AGCCCCAATC   960
TCAGGACCGG GAATTCCAGG CCGGTTCACC AAGGAGGCAG GGACCCTTGC CTACTATGAG  1020
ATCTGTGACT TCCTCCGCGG AGCCACAGTC CATAGAACCC TCGGCCAGCA GGTCCCCTAT  1080
GCCACCAAGG GCAACCAGTG GGTAGGATAC GACGACCAGG AAAGCGTCAA AAGCAAGGTG  1140
CAGTACCTGA AGGATAGGCA GCTGGCAGGC GCCATGGTAT GGGCCCTGGA CCTGGATGAC  1200
TTCCAGGGCT CCTTCTGCGG CCAGGATCTG CGCTTCCCTC TCACCAATGC CATCAAGGAT  1260
GCACTCGCTG CAACGTAGCC CTCTGTTCTG CACACAGCAC GGGGGCCAAG GATGCCCCGT  1320
CCCCCTCTGG CTCCAGCTGG CCGGGAGCCT GATCACCTGC CCTGCTGAGT CCCAGGCTGA  1380
GCCTCAGTCT CCCTCCCTTG GGGCCTATGC AGAGGTCCAC AACACACAGA TTTGAGCTCA  1440
GCCCTGGTGG GCAGAGAGGT AGGGATGGGG CTGTGGGGAT AGTGAGGCAT CGCAATGTAA  1500
GACTCGGGAT TAGTACACAC TTGTTGATGA TTAATGGAAA TGTTTACAGA TCCCCAAGCC  1560
TGGCAAGGGA ATTTCTTCAA CTCCCTGCCC CCTAGCCCTC CTTATCAAAG GACACCATTT  1620
TGGCAAGCTC TATCACCAAG GAGCCAAACA TCCTACAAGA CACAGTGACC ATACTAATTA  1680
TACCCCCTGC AAAGCCAGCT TGAAACCTTC ACTTAGGAAC GTAATCGTGT CCCCTATCCT  1740
ACTTCCCCTT CCTAATTCCA CAGCTGCTCA ATAAAGTACA AGAGTTTAAC AGTGTGTTGG  1800
CGCTTTGCTT TGGTCTATCT TTGAGCGCCC ACTAGACCCA CTGGACTCAC CTCCCCCATC  1860
TCTTCTGGGT TCCTTCCTCT GAGCCTTGGG ACCCCTGAGC TTGCAGAGAT GAAGGCCGCC  1920
ATGTT
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Seq ID NO: 501 Protein sequence
Protein Accession #: NP_001267.1

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1           11          21          31          41          51
|           |           |           |           |           |
MGVKASQTGF VVLVLLQCCS AYKLVCYYTS WSQYREGDGS CFPDALDRFL CTHIIYSFAN    60
ISNDHIDTWE WNDVTLYGML NTLKNRNPNL KTLLSVGGWN FGSQRFSKIA SNTQSRRTFI   120
KSVPPFLRTH GFDGLDLAWL YPGRRDKQHF TTLIKEMKAE FIKEAQPGKK QLLLSAALSA   180
GKVTIDSSYD IAKISQHLDF ISIMTYDFHG AWRGTTGHHS PLFRGQEDAS PDRFSNTDYA   240
VGYMLRLGAP ASKLVMGIPT FGRSFTLASS ETGVGAPISG PGIPGRFTKE AGTLAYYEIC   300
DFLRGATVHR TLGQQVPYAT KGNQWVGYDD QESVKSKVQY LKDRQLAGAM VWALDLDDFQ   360
GSFCGQDLRF PLTNAIKDAL AAT
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Seq ID NO: 502 DNA sequence
Nucleic Acid Accession #: NM_006474.1
Coding sequence: 181..669

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1           11          21          31          41          51
|           |           |           |           |           |
GCTGCCTAGG GTCTGGAAAG CTCGGGCACC CTCCCTCTCC GGGGCTCCTG CTCCCACCCC    60
TCCGGCCCCC CCACCGTCGC GCTCCTCCAG GCTGGGCCTG TGGCCGCGGT GCTTTTAATT   120
TTCCCCCAGC TCAGAATCTT GCTGCTCGGC CCCCAGGAGA GCAACAACTC AACGGGAACG   180
ATGTGGAAGG TGTCAGCTCT GCTCTTCGTT TTGGGAAGCG CGTCGCTCTG GGTCCTGGCA   240
GAAGGAGCCA GCACAGGCCA GCCAGAAGAT GACACTGAGA CTACAGGTTT GGAAGGCGGC   300
GTTGCCATGC CAGGTGCCGA AGATGATGTG GTGACTCCAG GAACCAGCGA AGACCGCTAT   360
AAGTCTGGCT TGACAACTCT GGTGGCAACA AGTGTCAACA GTGTAACAGG CATTCGCATC   420
GAGGATCTGC CAACTTCAGA AAGCACAGTC CACGCGCAAG AACAAAGTCC AAGCGCCACA   480
GCCTCAAACG TGGCCACCAG TCACTCCACG GAGAAAGTGG ATGGAGACAC ACAGACAACA   540
GTTGAGAAAG ATGGTTTGTC AACAGTGACC CTGGTTGGAA TCATAGTTGG GGTCTTACTA   600
GCCATCGGTT TCATTGGTGG AATCATCGTT GTGGTTATGC GAAAAATGTC GGGAAGGTAC   660
TCGCCCTAAA GAGCTGAAGG GTTACGCCCT GCTTGCCAAC GTGCTTTAAA AAAAGACCGT   720
TTCTGACTCT GTGGCCCTGT CCCTGAGCTC GTGGGGAGAA GATGACCCTG GGAACATTTG   780
CGGGCCCATT CAGATTCCAC GGTGACTTTC CGTTTGCCAA ATTAACCGAG GAAAGACCTT   840
TCACCAGATT TGGTTCTTAA ACTTT
```

Seq ID NO: 503 Protein sequence
Protein Accession #: NP_006465.1

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1           11          21          31          41          51
|           |           |           |           |           |
MWKVSALLFV LGSASLWVLA EGASTGQPED DTETTGLEGG VAMPGAEDDV VTPGTSEDRY    60
KSGLTTLVAT SVNSVTGIRI EDLPTSESTV HAQEQSPSAT ASNVATSHST EKVDGDTQTT   120
VEKDGLSTVT LVGIIVGVLL AIGFIGGIIV VVMRKMSGRY SP
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Seq ID NO: 504 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 62..895

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1           11          21          31          41          51
|           |           |           |           |           |
CACTGCTCTG AGAATTTGTG AGCAGCCCCT AACAGGCTGT TACTTCACTA CAACTGACGA    60
TATGATCATC TTAATTTACT TATTTCTCTT GCTATGGGAA GACACTCAAG GATGGGGATT   120
CAAGGATGGA ATTTTTCATA ACTCCATATG GCTTGAACGA GCAGCCGGTG TGTACCACAG   180
AGAAGCACGG TCTGGCAAAT ACAAGCTCAC CTACGCAGAA GCTAAGGCGG TGTGTGAATT   240
TGAAGGCGGC CATCTCGCAA CTTACAAGCA GCTAGAGGCA GCCAGAAAAA TTGGATTTCA   300
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TGTCTGTGCT GCTGGATGGA TGGCTAAGGG CAGAGTTGGA TACCCCATTG TGAAGCCAGG   360
GCCCAACTGT GGATTTGGAA AAACTGGCAT TATTGATTAT GGAATCCGTC TCAATAGGAG   420
TGAAAGATGG GATGCCTATT GCTACAACCC ACACGCAAAG GAGTGTGGTG GCGTCTTTAC   480
AGATCCAAAG CAAATTTTTA AATCTCCAGG CTTCCCAAAT GAGTACGAAG ATAACCAAAT   540
CTGCTACTGG CACATTAGAC TCAAGTATGG TCAGCGTATT CACCTGAGTT TTTTAGATTT   600
TGACCTTGAA GATGACCCAG GTTGCTTGGC TGATTATGTT GAAATATATG ACAGTTACGA   660
TGATGTCCAT GGCTTTGTGG GAAGATACTG TGGAGATGAG CTTCCAGATG ACATCATCAG   720
TACAGGAAAT GTCATGACCT TGAAGTTTCT AAGTGATGCT TCAGTGACAG CTGGAGGTTT   780
CCAAATCAAA TATGTTGCAA TGGATCCTGT ATCCAAATCC AGTCAAGGAA AAAATACAAG   840
TACTACTTCT ACTGGAAATA AAAACTTTTT AGCTGGAAGA TTTAGCCACT TATAAAAAAA   900
AAAAAAAGGA TGATCAAAAC ACACAGTGTT TATGTTGGAA TCTTTTGGAA CTCCTTTGAT   960
CTCACTGTTA TTATTAACAT TTATTTATTA TTTTTCTAAA TGTGAAAGCA ATACATAATT  1020
TAGGGAAAAT TGGAAAATAT AGGAAACTTT AAACGAGAAA ATGAAACCTC TCATAATCCC  1080
ACTGCATAGA AATAACAAGC GTTAACATTT TCATATTTTT TTCTTTCAGT CATTTTTCTA  1140
TTTGTGGTAT ATGTATATAT GTACCTATAT GTATTTGCAT TTGAAATTTT GGAATCCTGC  1200
TCTATGTACA GTTTTGTATT ATACTTTTTA AATCTTGAAC TTTATAAACA TTTTCTGAAA  1260
TCATTGATTA TTCTACAAAA ACATGATTTT AAACAGCTGT AAAATATTCT ATGATATGAA  1320
TGTTTTATGC ATTATTTAAG CCTGTCTCTA TTGTTGGAAT TTCAGGTCAT TTTCATAAAT  1380
ATTGTTGCAA TAAATATCCT TGAACACACA AAAAAAAAAA AA
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Seq ID NO: 505 Protein sequence
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
MIILIYLFLL LWEDTQGWGF KDGIFHNSIW LERAAGVYHR EARSGKYKLT YAEAKAVCEF    60
EGGHLATYKQ LEAARKIGFH VCAAGWMAKG RVGYPIVKPG PNCGFGKTGI IDYGIRLNRS   120
ERWDAYCYNP HAKECGGVFT DPKQIFKSPG FPNEYEDNQI CYWHIRLKYG QRIHLSFLDF   180
DLEDDPGCLA DYVEIYDSYD DVHGFVGRYC GDELPDDIIS TGNVMTLKFL SDASVTAGGF   240
QIKYVAMDPV SKSSQGKNTS TTSTGNKNFL AGRFSHL
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Seq ID NO: 506 DNA sequence
Nucleic Acid Accession #: NM_007115.1
Coding sequence: 69..902

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1           11          21          31          41          51
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GAATTCGCAC TGCTCTGAGA ATTTGTGAGC AGCCCCTAAC AGGCTGTTAC TTCACTACAA    60
CTGACGATAT GATCATCTTA ATTTACTTAT TTCTCTTGCT ATGGGAAGAC ACTCAAGGAT   120
GGGGATTCAA GGATGGAATT TTTCATAACT CCATATGGCT TGAACGAGCA GCCGGTGTGT   180
ACCACAGAGA AGCACGGTCT GGCAAATACA AGCTCACCTA CGCAGAAGCT AAGGCGGTGT   240
GTGAATTTGA AGGCGGCCAT CTCGCAACTT ACAAGCAGCT AGAGGCAGCC AGAAAAATTG   300
GATTTCATGT CTGTGCTGCT GGATGGATGG CTAAGGGCAG AGTTGGATAC CCCATTGTGA   360
AGCCAGGGCC CAACTGATGA TTTGGAAAAA CTGGCATTAT TGATTATGGA ATCCGTCTCA   420
ATAGGAGTGA AAGATGGGAT GCCTATTGCT ACAACCCACA CGCAAAGGAG TGTGGTGGCG   480
TCTTTACAGA TCCAAAGCGA ATTTTTAAAT CTCCAGGCTT CCCAAATGAG TACGAAGATA   540
ACCAAATCTG CTACTGGCAC ATTAGACTCA AGTATGGTCA GCGTATTCAC CTGAGTTTTT   600
TAGATTTTGA CCTTGAAGAT GACCCAGGTT GCTTGGCTGA TTATGTTGAA ATATATGACA   660
GTTACGATGA TGTCCATGGC TTTGTGGGAA GATACTGTGG AGATGAGCTT CCAGATGACA   720
TCATCAGTAC AGGAAATGTC ATGACCTTGA AGTTTCTAAG TGATGCTTCA GTGACAGCTG   780
GAGGTTTCCA AATCAAATAT GTTGCAATGG ATCCTGTATC CAAATCCAGT CAAGGAAAAA   840
ATACAAGTAC TACTTCTACT GGAAATAAAA ACTTTTTAGC TGGAAGATTT AGCCACTTAT   900
AAAAAAAAAA AAGGATGATC AAAACACACA GTGTTTATGT TGGAATCTTT TGGAACTCCT   960
TTGATCTCAC TGTTATTATT AACATTTATT TATTATTTTT CTAAATGTGA AAGAAATACA  1020
TAATTTAGGG AAAATTGGAA AATATAGGAA ACTTTAAACG AGAAAATGAA ACCTCTCATA  1080
ATCCCACTGC ATAGAAATAA CAAGCGTTAA CATTTTCATA TTTTTTTCTT TCAGTCATTT  1140
TTGTATTTGT GGTATATGTA TATATGTACC TATATGTATT TGCATTTGAA ATTTTGGAAT  1200
CCTGCTCTAT GTACAGTTTT GTATTATACT TTTTAAATCT TGAACTTTAT GAACATTTTC  1260
TGAAATCATT GATTATTCTA CAAAAACATG ATTTTAAACA GCTGTAAAAT ATTCTATGAT  1320
ATGAATGTTT TATGCATTAT TTAAGCCTGT CTCTATTGTT GGAATTTCAG GTCATTTTCA  1380
TAAATATTGT TGCAATAAAT ATCCTTCGGA ATTC
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Seq ID NO: 507 Protein sequence
Protein Accession #: NP_009046.1

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1           11          21          31          41          51
|           |           |           |           |           |
MIILIYLFLL LWEDTQGWGF KDGIFHNSIW LERAAGVYHR EARSGKYKLT YAEAKAVCEF    60
EGGHLATYKQ LEAARKIGFH VCAAGWMAKG RVGYPIVKPG PNXXFGKTGI IDYGIRLNRS   120
ERWDAYCYNP HAKECGGVFT DPKRIFKSPG FPNEYEDNQI CYWHIRLKYG QRIHLSFLDF   180
DLEDDPGCLA DYVEIYDSYD DVHGFVGRYC GDELPDDIIS TGNVMTLKFL SDASVTAGGF   240
QIKYVAMDPV SKSSQGKNTS TTSTGNKNFL AGRFSHL
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Seq ID NO: 508 DNA sequence
Nucleic Acid Accession #: NM_001044.1
Coding sequence: 129..1991

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AAAGCCCAGG CCCGGGCGGC CAGACCAAGA GGGAAGAAGC ACAGAATTCC TCAACTCCCA   120
GTGTGCCCAT GAGTAAGAGC AAATGCTCCG TGGGACTCAT GTCTTCCGTG GTGGCCCCGG   180
CTAAGGAGCC CAATGCCGTG GGCCCGAAGG AGGTGGAGCT CATCCTTGTC AAGGAGCAGA   240
ACGGAGTGCA GCTCACCAGC TCCACCCTCA CCAACCCGCG GCAGAGCCCC GTGGAGGCCC   300
AGGATCGGGA GACCTGGGGC AAGAAGATCG ACTTTCTCCT GTCCGTCATT GGCTTTGCTG   360
TGGACCTGGC CAACGTCTGG CGGTTCCCCT ACCTGTGCTA CAAAAATGGT GGCGGTGCCT   420
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TCCTGGTCCC CTACCTGCTC TTCATGGTCA TTGCTGGGAT GCCACTTTTC TACATGGAGC   480
TGGCCCTCGG CCAGTTCAAC AGGGAAGGGG CCGCTGGTGT CTGGAAGATC TGCCCCATAC   540
TGAAAGGTGT GGGCTTCACG GTCATCCTCA TCTCACTGTA TGTCGGCTTC TTCTACAACG   600
TCATCATCGC CTGGGCGCTG CACTATCTCT TCTCCTCCTT CACCACGGAG CTCCCCTGGA   660
TCCACTGCAA CAACTCCTGG AACAGCCCCA ACTGCTCGGA TGCCCATCCT GGTGACTCCA   720
GTGGAGACAG CTCGGGCCTC AACGACACTT TTGGGACCAC ACCTGCTGCC GAGTACTTTG   780
AACGTGGCGT GCTGCACCTC CACCAGAGCC ATGGCATCGA CGACCTGGGG CCTCCGCGGT   840
GGCAGCTCAC AGCCTGCCTG GTGCTGGTCA TCGTGCTGCT CTACTTCAGC CTCTGGAAGG   900
GCGTGAAGAC CTCAGGGAAG GTGGTATGGA TCACAGCCAC CATGCCATAC GTGGTCCTCA   960
CTGCCCTGCT CCTGCGTGGG GTCACCCTCC CTGGAGCCAT AGACGGCATC AGAGCATACC  1020
TGAGCGTTGA CTTCTACCGG CTCTGCGAGG CGTCTGTTTG GATTGACGCG GCCACCCAGG  1080
TGTGCTTCTC CCTGGGCGTG GGGTTCGGGG TGCTGATCGC CTTCTCCAGC TACAACAAGT  1140
TCACCAACAA CTGCTACAGG GACGCGATTG TCACCACCTC CATCAACTCC CTGACGAGCT  1200
TCTCCTCCGG CTTCGTCGTC TTCTCCTTCC TGGGGTACAT GGCACAGAAG CACAGTGTGC  1260
CCATCGGGGA CGTGGCCAAG GACGGGCCAG GGCTGATCTT CATCATCTAC CCGGAAGCCA  1320
TCGCCACGCT CCCTCTGTCC TCAGCCTGGG CCGTGGTCTT CTTCATCATG CTGCTCACCC  1380
TGGGTATCGA CAGCGCCATG GGTGGTATGG AGTCAGTGAT CACCGGGCTC ATCGATGAGT  1440
TCCAGCTGCT GCACAGACAC CGTGAGCTCT TCACGCTCTT CATCGTCCTG GCGACCTTCC  1500
TCCTGTCCCT GTTCTGCGTC ACCAACGGTG GCATCTACGT CTTCACGCTC CTGGACCATT  1560
TTGCAGCCGG CACGTCCATC CTCTTTGGAG TGCTCATCGA AGCCATCGGA GTGGCCTGGT  1620
TCTATGGTGT TGGGCAGTTC AGCGACGACA TCCAGCAGAT GACCGGGCAG CGGCCCAGCC  1680
TGTACTGGCG GCTGTGCTGG AAGCTGGTCA GCCCCTGCTT TCTCCTGTTC GTGGTCGTGG  1740
TCAGCATTGT GACCTTCAGA CCCCCCCACT ACGGAGCCTA CATCTTCCCC GACTGGGCCA  1800
ACGCGCTGGG CTGGGTCATC GCCACATCCT CCATGGCCAT GGTGCCCATC TATGCGGCCT  1860
ACAAGTTCTG CAGCCTGCCT GGGTCCTTTC GAGAGAAACT GGCCTACGCC ATTGCACCCG  1920
AGAAGGACCG TGAGCTGGTG GACAGAGGGG AGGTGCGCCA GTTCACGCTC CGCCACTGGC  1980
TCAAGGTGTA GAGGGAGCAG AGACGAAGAC CCCAGGAAGT CATCCTGCAA TGGGAGAGAC  2040
ACGAACAAAC CAAGGAAATC TAAGTTTCGA GAGAAAGGAG GGCAACTTCT ACTCTTCAAC  2100
CTCTACTGAA AACACAAACA ACAAAGCAGA AGACTCCTCT CTTCTGACTG TTTACACCTT  2160
TCCGTGCCGG GAGCGCACCT CGCCGTGTCT TGTGTTGCTG TAATAACGAC GTAGATCTGT  2220
GCAGCGAGGT CCACCCCGTT GTTGTCCCTG CAGGGCAGAA AAACGTCTAA CTTCATGCTG  2280
TCTGTGTGAG GCTCCCTCCC TCCCTGCTCC CTGCTCCCGG CTCTGAGGCT GCCCCAGGGG  2340
CACTGTGTTC TCAGGCGGGG ATCACGATCC TTGTAGACGC ACCTGCTGAG AATCCCCGTG  2400
CTCACAGTAG CTTCCTAGAC CATTTACTTT GCCCATATTA AAAAGCCAAG TGTCCTGCTT  2460
GGTTTAGCTG TGCAGAAGGT GAAATGGAGG AAACCACAAA TTCATGCAAA GTCCTTTCCC  2520
GATGCGTGGC TCCCAGCAGA GGCCGTAAAT TGAGCGTTCA GTTGACACAT TGCACACACA  2580
GTCTGTTCAG AGGCATTGGA GGATGGGGGT CCTGGTATGT CTCACCAGGA AATTCTGTTT  2640
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GGCAGCCTGT GGGTCCTTGT GGTGTAGGGA ACGGCCTGAG AGGAGCGTGT CCTATCCCCG  2760
GACGCATGCA GGGCCCCCAC AGGAGCGTGT CCTATCCCCG GACGCATGCA GGGCCCCCAC  2820
AGGAGCATGT CCTATCCCTG GACGCATGCA GGGCCCCCAC AGGAGCGTGT ACTACCCCAG  2880
AACGCATGCA GGGCCCCCAC AGGAGCGTGT ACTACCCCAG GACGCATGCA GGGCCCCCAC  2940
TGGAGCGTGT ACTACCCCAG GACGCATGCA GGGCCCCCAC AGGAGCGTGT CCTATCCCCG  3000
GACCGGACGC ATGCAGGGCC CCCACAGGAG CGTGTACTAC CCCAGGACGC ATGCAGGGCC  3060
CCCACAGGAG CGTGTACTAC CCCAGGATGC ATGCAGGGCC CCCACAGGAG CGTGTACTAC  3120
CCCAGGACGC ATGCAGGGCC CCCATGCAGG CAGCCTGCAG ACCAACACTC TGCCTGGCCT  3180
TGAGCCGTGA CCTCCAGGAA GGGACCCCAC TGGAATTTTA TTTCTCTCAG GTGCGTGCCA  3240
CATCAATAAC AACAGTTTTT ATGTTTGCGA ATGGCTTTTT AAAATCATAT TTACCTGTGA  3300
ATCAAAACAA ATTCAAGAAT GCAGTATCCG CGAGCCTGCT TGCTGATATT GCAGTTTTTG  3360
TTTACAAGAA TAATTAGCAA TACTGAGTGA AGGATGTTGG CCAAAAGCTG CTTTCCATGG  3420
CACACTGCCC TCTGCCACTG ACAGGAAAGT GGATGCCATA GTTTGAATTC ATGCCTCAAG  3480
TCGGTGGGCC TGCCTACGTG CTGCCCGAGG GCAGGGGCCG TGCAGGGCCA GTCATGGCTG  3540
TCCCCTGCAA GTGGACGTGG GCTCCAGGGA CTGGAGTGTA ATGCTCGGTG GGAGCCGTCA  3600
GCCTGTGAAC TGCCAGGCAG CTGCAGTTAG CACAGAGGAT GGCTTCCCCA TTGCCTTCTG  3660
GGGAGGGACA CAGAGGACGG CTTCCCCATC GCCTTCTGGC CGCTGCAGTC AGCACAGAGA  3720
GCGGCTTCCC CATTGCCTTC TGGGGAGGGA CACAGAGGAC AGTTTCCCCA TCGCCTTCTG  3780
GTTGTTGAAG ACAGCACAGA GAGCGGCTTC CCCATCGCCT TCTGGGGAGG GGCTCCGTGT  3840
AGCAACCCAG GTGTTGTCCG TGTCTGTTGA CCAATCTCTA TTCAGCATCG TGTGGGTCCC  3900
TAAGCACAAT AAAAGACATC CACAATGGAA AAAAAAAAAG GAATTC
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Seq ID NO: 509 Protein sequence
Protein Accession #: NP_001035.1

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1          11         21         31         41         51
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MSKSKCSVGL MSSVVAPAKE PNAVGPKEVE LILVKEQNGV QLTSSTLTNP RQSPVEAQDR    60
ETWGKKIDFL LSVIGFAVDL ANVWRFPYLC YKNGGGAFLV PYLLFMVIAG MPLFYMELAL   120
GQFNREGAAG VWKICPILKG VGFTVILISL YVGFFYNVII AWALHYLFSS FTTELPWIHC   180
NNSWNSPNCS DAHPGDSSGD SSGLNDTFGT TPAAEYFERG VLHLHQSHGI DDLGPPRWQL   240
TACLVLVIVL LYFSLWKGVK TSGKVVWITA TMPYVVLTAL LLRGVTLPGA IDGIRAYLSV   300
DFYRLCEASV WIDAATQVCF SLGVGFGVLI AFSSYNKFTN NCYRDAIVTT SINSLTSFSS   360
GFVVFSFLGY MAQKHSVPIG DVAKDGPGLI FIIYPEAIAT LPLSSAWAVV FFIMLLTLGI   420
DSAMGGMESV ITGLIDEFQL LHRHRELFTL FIVLATFLLS LFCVTNGGIY VFTLLDHFAA   480
GTSILFGVLI EAIGVAWFYG VGQFSDDIQQ MTGQRPSLYW RLCWKLVSPC FLLFVVVVSI   540
VTFRPPHYGA YIFPDWANAL GWVIATSSMA MVPIYAAYKF CSLPGSFREK LAYAIAPEKD   600
RELVDRGEVR QFTLRHWLKV
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Seq ID NO: 510 DNA sequence
Nucleic Acid Accession #: NM_001216.1
Coding sequence: 43..1422

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1          11         21         31         41         51
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AGCCCCTGGC TCCCTCTGTT GATCCCGGCC CCTGCTCCAG GCCTCACTGT GCAACTGCTG   120
CTGTCACTGC TGCTTCTGAT GCCTGTCCAT CCCCAGAGGT TGCCCCGGAT GCAGGAGGAT   180
TCCCCCTTGG GAGGAGGCTC TTCTGGGGAA GATGACCCAC TGGGCGAGGA GGATCTGCCC   240
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AGTGAAGAGG ATTCACCCAG AGAGGAGGAT CCACCCGGAG AGGAGGATCT ACCTGGAGAG   300
GAGGATCTAC CTGGAGAGGA GGATCTACCT GAAGTTAAGC CTAAATCAGA AGAAGAGGGC   360
TCCCTGAAGT TAGAGGATCT ACCTACTGTT GAGGCTCCTG GAGATCCTCA AGAACCCCAG   420
AATAATGCCC ACAGGGACAA AGAAGGGGAT GACCAGAGTC ATTGGCGCTA TGGAGGCGAC   480
CCGCCCTGGC CCCGGGTGTC CCCAGCCTGC GCGGGCCGCT TCCAGTCCCC GGTGGATATC   540
CGCCCCCAGC TCGCCGCCTT CTGCCCGGCC CTGCGCCCCC TGGAACTCCT GGGCTTCCAG   600
CTCCCGCCGC TCCCAGAACT GCGCCTGCGC AACAATGGCC ACAGTGTGCA ACTGACCCTG   660
CCTCCTGGGC TAGAGATGGC TCTGGGTCCC GGGCGGGAGT ACCGGGCTCT GCAGCTGCAT   720
CTGCACTGGG GGGCTGCAGG TCGTCCGGGC TCGGAGCACA CTGTGGAAGG CCACCGTTTC   780
CCTGCCGAGA TCCACGTGGT TCACCTCAGC ACCGCCTTTG CCAGAGTTGA CGAGGCCTTG   840
GGGCGCCCGG GAGGCCTGGC CGTGTTGGCC GCCTTTCTGG AGGAGGGCCC GGAAGAAAAC   900
AGTGCCTATG AGCAGTTGCT GTCTCGCTTG GAAGAAATCG CTGAGGAAGG CTCAGAGACT   960
CAGGTCCCAG GACTGGACAT ATCTGCACTC CTGCCCTCTG ACTTCAGCCG CTACTTCCAA  1020
TATGAGGGGT CTCTGACTAC ACCGCCCTGT GCCCAGGGTG TCATCTGGAC TGTGTTTAAC  1080
CAGACAGTGA TGCTGAGTGC TAAGCAGCTC CACACCCTCT CTGACACCCT GTGGGGACCT  1140
GGTGACTCTC GGCTACAGCT GAACTTCCGA GCGACGCAGC CTTTGAATGG GCGAGTGATT  1200
GAGGCCTCCT TCCCTGCTGG AGTGGACAGC AGTCCTCGGG CTGCTGAGCC AGTCCAGCTG  1260
AATTCCTGCC TGGCTGCTGG TGACATCCTA GCCCTGGTTT TTGGCCTCCT TTTTGCTGTC  1320
ACCAGCGTCG CGTTCCTTGT GCAGATGAGA AGGCAGCACA GAAGGGGAAC CAAAGGGGGT  1380
GTGAGCTACC GCCCAGCAGA GGTAGCCGAG ACTGGAGCCT AGAGGCTGGA TCTTGGAGAA  1440
TGTGAGAAGC CAGCCAGAGG CATCTGAGGG GGAGCCGGTA ACTGTCCTGT CCTGCTCATT  1500
ATGCCACTTC CTTTTAACTG CCAAGAAATT TTTTAAAATA AATATTTATA AT
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Seq ID NO: 511 Protein sequence
Protein Accession #: NP_001207.1

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1           11          21          31          41          51
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MAPLCPSPWL PLLIPAPAPG LTVQLLLSLL LLMPVHPQRL PRMQEDSPLG GGSSGEDDPL    60
GEEDLPSEED SPREEDPPGE EDLPGEEDLP GEEDLPEVKP KSEEEGSLKL EDLPTVEAPG   120
DPQEPQNNAH RDKEGDDQSH WRYGGDPPWP RVSPACAGRF QSPVDIRPQL AAFCPALRPL   180
ELLGFQLPPL PELRLRNNGH SVQLTLPPGL EMALGPGREY RALQLHLHWG AAGRPGSEHT   240
VEGHRFPAEI HVVHLSTAFA RVDEALGRPG GLAVLAAFLE EGPEENSAYE QLLSRLEEIA   300
EEGSETQVPG LDISALLPSD FSRYFQYEGS LTTPPCAQGV IWTVFNQTVM LSAKQLHTLS   360
DTLWGPGDSR LQLNFRATQP LNGRVIEASF PAGVDSSPRA AEPVQLNSCL AAGDILALVF   420
GLLFAVTSVA FLVQMRRQHR RGTKGGVSYR PAEVAETGA
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Seq ID NO: 512 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..3978

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TTTGCAGAAA GATATGACCC CAGCCTGAAG ACCATGATCC CAGTGCGACC CTGTGCAAGG   120
TTAGCACCCA ACCCGGTGGA TGATGCCGGG CTACTCTCCT TCGCCACATT TTCCTGGCTC   180
ACGCCGGTGA TGGTGAAAGG CTACCGGCAA AGGCTGACCG TAGACACCCT GCCCCCATTG   240
TCGACATATG ACTCATCTGA CACCAATGCC AAAAGATTTC GAGTCCTTTG GGATGAAGAG   300
GTAGCAAGGG TGGGTCCTGA GAAGGCCTCT CTGAGCCACG TGGTGTGGAA ATTCCAGAGG   360
ACACGCGTGT TGATGGACAT CGTGGCCAAC ATCCTGTGCA TCATCATGGC AGCCATAGGG   420
CCGACAGTTC TCATTCACCA AATCCTCCAG CAGACTGAGA GGACCTCTGG GAAAGTCTGG   480
GTTGGCATTG GACTGTGCAT AGCCCTTTTT GCCACCGAGT TTACCAAAGT CTTCTTTTGG   540
GCCCTTGCCT GGGCCATCAA CTACCGCACG GCCATCCGGT TGAAGGTGGC GCTCTCCACC   600
TTGGTTTTTG AAAACCTAGT GTCCTTCAAG ACATTGACCC ACATCTCTGT TGGCGAGGTG   660
CTCAATATAC TGTCAAGTGA TAGCTATTCT TTGTTTGAAG CTGCCTTGTT TTGTCCTTTG   720
CCAGCCACCA TCCCGATCCT AATGGTCTTT TGTGCGGCGT ACGCCTTTTT CATTCTGGGG   780
CCCACAGCTC TCATCGGGAT ATCAGTGTAT GTCATATTCA TACCCGTCCA GATGTTTATG   840
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ACAATGAATG AGTTTCTGAC CTGCATCAGG CTGATCAAAA TGTATGCCTG GGAGAAATCT   960
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TTTGTGGTGA GAAAGTTATG TCGTTATCCC GAAGCCCAGC TCCTGGCTTG GAGGTGGCCA  1560
GCAGTGTTTG TTGGGAGAAT CATCAGAGGA TACAGGCCTC ATGGATTTTC TGCTAAAGAC  1620
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GCCAAATACC TGGGGAAGAT CTTGGGAATA TGTGGGAATG TGGGAAGTGG AAAGAGCTCC  1740
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ACTTTGGCCT ACGTTTCACA GCAGGCATGG ATCTTTCATG GAAATGTGAG AGAAAACATA  1860
CTCTTTGGAG AAAAGTATGA TCACCAAAGG TATCAGCACA CAGTCCGCGT CTGTGGCCTC  1920
CAGAAGGACC TGAGCAACCT CCCCTATGGA GACCTGACTG AGATTGGGGA GCGGGGCCTC  1980
AACCTCTCTG GGGGGCAGAG GCAGAGGATT AGCCTGGCCC GCGCTGTCTA CTCCGACCGT  2040
CAGCTCTACC TGCTGGACGA CCCCCTGTCG GCCGTGGACG CCCACGTGGG GAAGCACGTC  2100
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CTGCGAGGAT TGCAGTTCAA GGATCCTGAA CACCTTTACA ATGCAGCAAT GGTGGAAGCC  2340
TTCAAGGAGA GCCCTGCTGA GAGAGAGGAA GATGCTGGTA TAATCGGGTA CCTCCTTTCT  2400
CTCTTCACTG TGTTCCTCTT CCTCCTGATG ATTGGCAGCG CTGCCTTCAG CAACTGGTGG  2460
CTGGGTCTCT GGTTGGACAA GGGCTCACGG ATGACCTGTG GGCCCCAGGG CAACAGGACC  2520
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ACTGCAAGCA TGGTGTTCAT GCTGGTGTTT GGCGTCACCA AAGGCTTCGT CTTCACCAAG  2640
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ACCACACTGA TGGCATCCTC CTCTCTGCAT GACACGGTGT TTGATAAGAT CTTAAAGAGC  2700
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GCCAGCCTTG CTGTAGGCTT CTTCATTCTG TTACGCATTT TCCACAGAGG AGTCCAGGAG  2940
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CAGGGCCTGG GCATCATTCA CGCCTATGGC AAGAAGGAGA GCTGCATCAC CTATACTTCA  3060
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CGAACGGGAA CAGAGACGCA AGCCAAATTC ACCTCCGTGG AGCTGCTCAG GGAATACATT  3180
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CCCAGCTGTG GGGAGATCAC CTTCAGAGAC TATCAGATGA GATACAGAGA CAACACCCCC  3300
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AGAACAGGTT CCGGAAAGTC ATCGTTAGGA ATGGCTTTGT TTCGTCTGGT GGAGCCAGCC  3420
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ACCAAGCTGA CTGTGATCCC ACAGGATCCT GTCCTGTTTG TAGGTACAGT AAGGTACAAC  3540
TTGGATCCCT TTGAGAGTCA CACCGATGAG ATGCTCTGGC AGGTTCTGGA GAGAACATTC  3600
ATGAGAGACA CAATAATGAA ACTCCCAGAA AAATTACAGG CAGAAGTCAC AGAAAATGGA  3660
GAAAACTTCT CAGTAGGGGA ACGTCAGCTG CTTTGTGTGG CCCGAGCTCT TCTCCGTAAT  3720
TCAAAGATCA TTCTCCTTGA TGAAGCCACC GCCTCTATGG ACTCCAAGAC TGACACCCTG  3780
GTTCAGAACA CCATCAAAGA TGCCTTCAAG GGCTGCACTG TGCTGACCAT CGCCCACCGC  3840
CTCAACACAG TTCTCAACTG CGATCACGTC CTGGTTATGG AAAATGGGAA GGTGATTGAG  3900
TTTGACAAGC CTGAAGTCCT TGCAGAGAAG CCAGATTCTG CATTTGCGAT GTTACTAGCA  3960
GCAGAAGTCA GATTGTAG
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Seq ID NO: 513 Protein sequence
Protein Accession #: Eos sequence

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TPVMVKGYRQ RLTVDTLPPL STYDSSDTNA KRFRVLWDEE VARVGPEKAS LSHVVWKFQR   120
TRVLMDIVAN ILCIIMAAIG PTVLIHQILQ QTERTSGKVW VGIGLCIALF ATEFTKVFFW   180
ALAWAINYRT AIRLKVALST LVFENLVSFK TLTHISVGEV LNILSSDSYS LFEAALFCPL   240
PATIPILMVF CAAYAFFILG PTALIGISVY VIFIPVQMFM AKLNSAFRRS AILVTDKRVQ   300
TMNEFLTCIR LIKMYAWEKS FTNTIQDIRR RERKLLEKAG FVQSGNSALA PIVSTIAIVL   360
TLSCHILLRR KLTAPVAFSV IAMFNVMKFS IAILPFSIKA MAEANVSLRR MKKILIDKSP   420
PSYITQPEDP DTVLLLANAT LTWEHEASRK STPKKLQNQK RHLCKKQRSE AYSERSPPAK   480
GATGPEEQSD SLKSVLHSIS FVVRKLCRYP EAQLLAWRWP AVFVGRIIRG YRPHGFSAKD   540
KDESRRLLTW PQEVDRTQRA AKYLGKILGI CGNVGSGKSS LLAALLGQMQ LQKGVVAVNG   600
TLAYVSQQAW IFHGNVRENI LFGEKYDHQR YQHTVRVCGL QKDLSNLPYG DLTEIGERGL   660
NLSGGQRQRI SLARAVYSDR QLYLLDDPLS AVDAHVGKHV FEECIKKTLR GKTVVLVTHQ   720
LQFLESCDEV ILLEDGEICE KGTHKELMEE RGRYAKLIHN LRGLQFKDPE HLYNAAMVEA   780
FKESPAEREE DAGIIGYLLS LFTVFLFLLM IGSAAFSNWW LGLWLDKGSR MTCGPQGNRT   840
MCEVGAVLAD IGQHVYQWVY TASMVFMLVF GVTKGFVFTK TTLMASSSLH DTVFDKILKS   900
PMSFFDTTPT GRLMNRFSKD MDELDVRLPF HAENFLQQFF MVVFILVILA AVFPAVLLVV   960
ASLAVGFFIL LRIFHRGVQE LKKVENVSRS PWFTHITSSM QGLGIIHAYG KKESCITYTS  1020
SKGLSLSYII QLSGLLQVCV RTGTETQAKF TSVELLREYI STCVPECTHP LKVGTCPKDW  1080
PSCGEITFRD YQMRYRDNTP LVLDSLNLNI QSGQTVGIVG RTGSGKSSLG MALFRLVEPA  1140
SGTIFIDEVD ICILSLEDLR TKLTVIPQDP VLFVGTVRYN LDPFESHTDE MLWQVLERTF  1200
MRDTIMKLPE KLQAEVTENG ENFSVGERQL LCVARALLRN SKIILLDEAT ASMDSKTDTL  1260
VQNTIKDAFK GCTVLTIAHR LNTVLNCDHV LVMENGKVIE FDKPEVLAEK PDSAFAMLLA  1320
AEVRL
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Seq ID NO: 514 DNA sequence
Nucleic Acid Accession #: Z31560
Coding sequence: 1-966

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1           11          21          31          41          51
|           |           |           |           |           |
CACAGCGCCC GCATGTACAA CATGATGGAG ACGGAGCTGA AGCCGCCGGG CCCGCAGCAA    60
ACTTCGGGGG GCGGCGGCGG CAACTCCACC GCGGCGGCGG CCGGCGGCAA CCAGAAAAAC   120
AGCCCGGACC GCGTCAAGCG GCCCATGAAT GCCTTCATGG TGTGGTCCCG CGGGCAGCGG   180
CGCAAGATGG CCCAGGAGAA CCCCAAGATG CACAACTCGG AGATCAGCAA GCGCCTGGGC   240
GCCGAGTGGA AACTTTTGTC GGAGACGGAG AAGCGGCCGT TCATCGACGA GGCTAAGCGG   300
CTGCGAGCGC TGCACATGAA GGAGCACCCG GATTATAAAT ACCGGCCCCG GCGGAAAACC   360
AAGACGCTCA TGAAGAAGGA TAAGTACACG CTGCCCGGCG GGCTGCTGGC CCCCGGCGGC   420
AATAGCATGG CGAGCGGGGT CGGGGTGGGC GCCGGCCTGG GCGCGGGCGT GAACCAGCGC   480
ATGGACAGTT ACGCGCACAT GAACGGCTGG AGCAACGGCA GCTACAGCAT GATGCAGGAC   540
CAGCTGGGCT ACCCGCAGCA CCCGGGCCTC AATGCGCACG GCGCAGCGCA GATGCAGCCC   600
ATGCACCGCT ACGACGTGAG CGCCCTGCAG TACAACTCCA TGACCAGCTC GCAGACCTAC   660
ATGAACGGCT CGCCCACCTA CAGCATGTCC TACTCGCAGC AGGGCACCCC TGGCATGGCT   720
CTTGGCTCCA TGGGTTCGGT GGTCAAGTCC GAGGCCAGCT CCAGCCCCCC TGTGGTTACC   780
TCTTCCTCCC ACTCCAGGGC GCCCTGCCAG GCCGGGGACC TCCGGGACAT GATCAGCATG   840
TATCTCCCCG GCGCCGAGGT GCCGGAACCC GCCGCCCCCA GCAGACTTCA CATGTCCCAG   900
CACTACCAGA GCGGCCCGGT GCCCGGCACG GCCATTAACG GCACACTGCC CCTCTCACAC   960
ATGTGAGGGC CGGACAGCGA ACTGGAGGGG GGAGAAATTT TCAAAGAAAA ACGAGGGAAA  1020
TGGGAGGGGT GCAAAAGAGG AGAGTAAGAA ACAGCATGGA GAAAACCCGG TACGCTCAAA  1080
AAAAA
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Seq ID NO: 515 Protein sequence
Protein Accession #: CAA83435

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1           11          21          31          41          51
|           |           |           |           |           |
HSARMYNMME TELKPPGPQQ TSGGGGGNST AAAAGGNQKN SPDRVKRPMN AFMVWSRGQR    60
RKMAQENPKM HNSEISKRLG AEWKLLSETE KRPFIDEAKR LRALHMKEHP DYKYRPRRKT   120
KTLMKKDKYT LPGGLLAPGG NSMASGVGVG AGLGAGVNQR MDSYAHMNGW SNGSYSMMQD   180
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QLGYPQHPGL NAHGAAQMQP MHRYDVSALQ YNSMTSSQTY MNGSPTYSMS YSQQGTPGMA   240
LGSMGSVVKS EASSSPPVVT SSSHSRAPCQ AGDLRDMISM YLPGAEVPEP AAPSRLHMSQ   300
HYQSGPVPGT AINGTLPLSH M

Seq ID NO: 516 DNA sequence
Nucleic Acid Accession #: U91618
Coding sequence: 29..541

1          11         21         31         41         51
|          |          |          |          |          |
CGGACTTGGC TTGTTAGAAG GCTGAAAGAT GATGGCAGGA ATGAAAATCC AGCTTGTATG    60
CATGCTACTC CTGGCTTTCA GCTCCTGGAG TCTGTGCTCA GATTCAGAAG AGGAAATGAA   120
AGCATTAGAA GCAGATTTCT TGACCAATAT GCATACATCA AAGATTAGTA AAGCACATGT   180
TCCCTCTTGG AAGATGACTC TGCTAAATGT TTGCAGTCTT GTAAATAATT TGAACAGCCC   240
AGCTGAGGAA ACAGGAGAAG TTCATGAAGA GGAGCTTGTT GCAAGAAGGA AACTTCCTAC   300
TGCTTTAGAT GGCTTTAGCT TGGAAGCAAT GTTGACAATA TACCAGCTCC ACAAAATCTG   360
TCACAGCAGG GCTTTTCAAC ACTGGGAGTT AATCCAGGAA GATATTCTTG ATACTGGAAA   420
TGACAAAAAT GGAAAGGAAG AAGTCATAAA GAGAAAAATT CCTTATATTC TGAAACGGCA   480
GCTGTATGAG AATAAACCCA GAAGACCCTA CATACTCAAA AGAGATTCTT ACTATTACTG   540
AGAGAATAAA TCATTTATTT ACATGTGATT GTGATTCATC ATCCCTTAAT TAAATATCAA   600
ATTATATTTG TGTGAAAATG TGACAAACAC ACTTATCTGT CTCTTCTACA ATTGTGGTTT   660
ATTGAATGTG TTTTTCTGCA CTAATAGAAA TTAGACTAAG TGTTTTCAAA TAAATCTAAA   720
TCTTCAAAAA AAAAAAAAAA AAATGGGGCC GCAATT

Seq ID NO: 517 Protein sequence
Protein Accession #: AAB50564

1          11         21         31         41         51
|          |          |          |          |          |
MMAGMKIQLV CMLLLAFSSW SLCSDSEEEM KALEADFLTN MHTSKISKAH VPSWKMTLLN    60
VCSLVNNLNS PAEETGEVHE EELVARRKLP TALDGFSLEA MLTIYQLHKI CHSRAFQHWE   120
LIQEDILDTG NDKNGKEEVI KRKIPYILKR QLYENKPRRP YILKRDSYYY

Seq ID NO: 518 DNA sequence
Nucleic Acid Accession #:  NM_006536.2
Coding sequence: 109..2940

1          11         21         31         41         51
|          |          |          |          |          |
ACCTAAAACC TTGCAAGTTC AGGAAGAAAC CATCTGCATC CATATTGAAA ACCTGACACA    60
ATGTATGCAG CAGGCTCAGT GTGAGTGAAC TGGAGGCTTC TCTACAACAT GACCCAAAGG   120
AGCATTGCAG GTCCTATTTG CAACCTGAAG TTTGTGACTC TCCTGGTTGC CTTAAGTTCA   180
GAACTCCCAT TCCTGGGAGC TGGAGTACAG CTTCAAGACA ATGGGTATAA TGGATTGCTC   240
ATTGCAATTA ATCCTCAGGT ACCTGAGAAT CAGAACCTCA TCTCAAACAT TAAGGAAATG   300
ATAACTGAAG CTTCATTTTA CCTATTTAAT GCTACCAAGA GAAGAGTATT TTTCAGAAAT   360
ATAAAGATTT TAATACCTGC CACATGGAAA GCTAATAATA ACAGCAAAAT AAAACAAGAA   420
TCATATGAAA AGGCAAATGT CATAGTGACT GACTGGTATG GGGCACATGG AGATGATCCA   480
TACACCCTAC AATACAGAGG GTGTGGAAAA GAGGGAAAAT ACATTCATTT CACACCTAAT   540
TTCCTACTGA ATGATAACTT AACAGCTGGC TACGGATCAC GAGGCCGAGT GTTTGTCCAT   600
GAATGGGCCC ACCTCCGTTG GGGTGTGTTC GATGAGTATA ACAATGACAA ACCTTTCTAC   660
ATAAATGGGC AAAATCAAAT TAAAGTGACA AGGTGTTCAT CTGACATCAC AGGCATTTTT   720
GTGTGTGAAA AAGGTCCTTG CCCCCAAGAA AACTGTATTA TTAGTAAGCT TTTTAAAGAA   780
GGATGCACCT TTATCTACAA TAGCACCCAA AATGCAACTG CATCAATAAT GTTCATGCAA   840
AGTTTATCTT CTGTGGTTGA ATTTTGTAAT GCAAGTACCC ACAACCAAGA AGCACCAAAC   900
CTACAGAACC AGATGTGCAG CCTCAGAAGT GCATGGGATG TAATCACAGA CTCTGCTGAC   960
TTTCACCACA GCTTTCCCAT GAATGGGACT GAGCTTCCAC CTCCTCCCAC ATTCTCGCTT  1020
GTACAGGCTG GTGACAAAGT GGTCTGTTTA GTGCTGGATG TGTCCAGCAA GATGGCAGAG  1080
GCTGACAGAC TCCTTCAACT ACAACAAGCC GCAGAATTTT ATTTGATGCA GATTGTTGAA  1140
ATTCATACCT TCGTGGGCAT TGCCAGTTTC GACAGCAAAG GAGAGATCAG AGCCCAGCTA  1200
CACCAAATTA ACAGCAATGA TGATCGAAAG TTGCTGGTTT CATATCTGCC CACCACTGTA  1260
TCAGCTAAAA CAGACATCAG CATTTGTTCA GGGCTTAAGA AAGGATTTGA GGTGGTTGAA  1320
AAACTGAATG GAAAAGCTTA TGGCTCTGTG ATGATATTAG TGACCAGCGG AGATGATAAG  1380
CTTCTTGGCA ATTGCTTACC CACTGTGCTC AGCAGTGGTT CAACAATTCA CTCCATTGCC  1440
CTGGGTTCAT CTGCAGCCCC AAATCTGGAG GAATTATCAC GTCTTACAGG AGGTTTAAAG  1500
TTCTTTGTTC CAGATATATC AAACTCCAAT AGCATGATTG ATGCTTTCAG TAGAATTTCC  1560
TCTGGAACTG GAGACATTTT CCAGCAACAT ATTCAGCTTG AAAGTACAGG TGAAAATGTC  1620
AAACCTCACC ATCAATTGAA AAACACAGTG ACTGTGGATA ATACTGTGGG CAACGACACT  1680
ATGTTTCTAG TTACGTGGCA GGCCAGTGGT CCTCCTGAGA TTATATTATT TGATCCTGAT  1740
GGACGAAAAT ACTACACAAA TAATTTTATC ACCAATCTAA CTTTTCGGAC AGCTAGTCTT  1800
TGGATTCCAG GAACAGCTAA GCCTGGGCAC TGGACTTACA CCCTGAACAA TACCCATCAT  1860
TCTCTGCAAG CCCTGAAAGT GACAGTGACC TCTCGCGCCT CCAACTCAGC TGTGCCCCCA  1920
GCCACTGTGG AAGCCTTTGT GGAAAGAGAC AGCCTCCATT TTCCTCATCC TGTGATGATT  1980
TATGCCAATG TGAAACAGGG ATTTTATCCC ATTCTTAATG CCACTGTCAC TGCCACAGTT  2040
GAGCCAGAGA CTGGAGATCC TGTTACGCTG AGACTCCTTG ATGATGGAGC AGGTGCTGAT  2100
GTTATAAAAA ATGATGGAAT TTACTCGAGG TATTTTTTCT CCTTTGCTGC AAATGGTAGA  2160
TATAGCTTGA AAGTGCATGT CAATCACTCT CCCAGCATAA GCACCCCAGC CCACTCTATT  2220
CCAGGGAGTC ATGCTATGTA TGTACCAGGT TACACAGCAA ACGGTAATAT TCAGATGAAT  2280
GCTCCAAGGA AATCAGTAGG CAGAAATGAG GAGGAGCGAA AGTGGGGCTT TAGCCGAGTC  2340
AGCTCAGGAG GCTCCTTTTC AGTGCTGGGA GTTCCAGCTG GCCCCCACCC TGATGTGTTT  2400
CCACCATGCA AAATTATTGA CCTGGAAGCT GTAAAAGTAG AAGAGGAATT GACCCTATCT  2460
TGGACAGCAC CTGGAGAAGA CTTTGATCAG GGCCAGGCTA CAAGCTATGA AATAAGAATG  2520
AGTAAAAGTC TACAGAATAT CCAAGATGAC TTTAACAATG CTATTTTAGT AAATACATCA  2580
AAGCGAAATC CTCAGCAAGC TGGCATCAGG GAGATATTTA CGTTCTCACC CCAGATTTCC  2640
ACGAATGGAC CTGAACATCA GCCAAATGGA GAAACACATG AAAGCCACAG AATTTATGTT  2700
GCAATACGAG CAATGGATAG GAACTCCTTA CAGTCTGCTG TATCTAACAT TGCCCAGGCG  2760
CCTCTGTTTA TTCCCCCCAA TTCTGATCCT GTACCTGCCA GAGATTATCT TATATTGAAA  2820
GGAGTTTTAA CAGCAATGGG TTTGATAGGA ATCATTTGCC TTATTATAGT TGTGACACAT  2880
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CATACTTTAA GCAGGAAAAA GAGAGCAGAC AAGAAAGAGA ATGGAACAAA ATTATTATAA  2940
ATAAATATCC AAAGTGTCTT CCTTCTTAGA TATAAGACCC ATGGCCTTCG ACTACAAAAA  3000
CATACTAACA AAGTCAAATT AACATCAAAA CTGTATTAAA ATGCATTGAG TTTTTGTACA  3060
ATACAGATAA GATTTTTACA TGGTAGATCA ACAATTCTTT TTGGGGGTAG ATTAGAAAAC  3120
CCTTACACTT TGGCTATGAA CAAATAATAA AAATTATTCT TTAAAGTAAT GTCTTTAAAG  3180
GCAAAGGGAA GGGTAAAGTC GGACCAGTGT CAAGGAAAGT TTGTTTTATT GAGGTGGAAA  3240
AATAGCCCCA AGCAGAGAAA AGGAGGGTAG GTCTGCATTA TAACTGTCTG TGTGAAGCAA  3300
TCATTTAGTT ACTTTGATTA ATTTTTCTTT TCTCCTTATC TGTGCAGTAC AGGTTGCTTG  3360
TTTACATGAA GATCATGCTA TATTTTATAT ATGTAGCCCC TAATGCAAAG CTCTTTACCT  3420
CTTGCTATTT TGTTATATAT ATTTCAGATG ACATCTCCCT GCTAATGCTC AGAGATCTTT  3480
TTTCACTGTA AGAGGTAACC TTTAACAATA TGGGTATTAC CTTTGTCTCT TCATACCGGT  3540
TTTATGACAA AGGTCTATTG AATTTATTTG TNTGTAAGTT TCTACTCCCA TCAAAGCAGC  3600
TTTCTAAGTT TATTGCCTTG GGTTATTATG GAATGATAGT TATAGCCCCN TATAATGCCT  3660
TACCTAGGAA A
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Seq ID NO: 519 Protein sequence
Protein Accession #: NP_006527.1

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1           11          21          31          41          51
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MTQRSIAGPI CNLKFVTLLV ALSSELPFLG AGVQLQDNGY NGLLIAINPQ VPENQNLISN    60
IKEMITEASF YLFNATKRRV FFRNIKILIP ATWKANNNSK IKQESYEKAN VIVTDWYGAH   120
GDDPYTLQYR GCGKEGKYIH FTPNFLLNDN LTAGYGSRGR VFVHEWAHLR WGVFDEYNND   180
KPFYINGQNQ IKVTRCSSDI TGIFVCEKGP CPQENCIISK LFKEGCTFIY NSTQNATASI   240
MFMQSLSSVV EFCNASTHNQ EAPNLQNQMC SLRSAWDVIT DSADFHHSFP MNGTELPPPP   300
TFSLVQAGDK VVCLVLDVSS KMAEADRLLQ LQQAAEFYLM QIVEIHTFVG IASFDSKGEI   360
RAQLHQINSN DDRKLLVSYL PTTVSAKTDI SICSGLKKGF EVVEKLNGKA YGSVMILVTS   420
GDDKLLGNCL PTVLSSGSTI HSIALGSSAA PNLEELSRLT GGLKFFVPDI SNSNSMIDAF   480
SRISSGTGDI FQQHIQLEST GENVKPHHQL KNTVTVDNTV GNDTMFLVTW QASGPPEIIL   540
FDPDGRKYYT NNFITNLTFR TASLWIPGTA KPGHWTYTLN NTHHSLQALK VTVTSRASNS   600
AVPPATVEAF VERDSLHFPH PVMIYANVKQ GFYPILNATV TATVEPETGD PVTLRLLDDG   660
AGADVIKNDG IYSRYFFSPA ANGRYSLKVH VNHSPSISTP AHSIPGSHAM YVPGYTANGN   720
IQMNAPRKSV GRNEEERKWG FSRVSSGGSF SVLGVPAGPH PDVFPPCKII DLEAVKVEEE   780
LTLSWTAPGE DFDQGQATSY EIRMSKSLQN IQDDFNNAIL VNTSKRNPQQ AGIREIFTFS   840
PQISTNGPEH QPNGETHESH RIYVAIRAMD RNSLQSAVSN IAQAPLFIPP NSDPVPARDY   900
LILKGVLTAM GLIGIICLII VVTHHTLSRK KRADKKENGT KLL
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Seq ID NO: 520 DNA sequence
Nucleic Acid Accession #: NM_000228.1
Coding sequence: 82..3600

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1           11          21          31          41          51
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GGATCACCCC ATTGGCTGAA GATGAGACCA TTCTTCCTCT TGTGTTTTGC CCTGCCTGGC    120
CTCCTGCATG CCCAACAAGC CTGCTCCCGT GGGGCCTGCT ATCCACCTGT TGGGGACCTG    180
CTTGTTGGGA GGACCCGGTT TCTCCGAGCT TCATCTACCT GTGGACTGAC CAAGCCTGAG    240
ACCTACTGCA CCCAGTATGG CGAGTGGCAG ATGAAATGCT GCAAGTGTGA CTCCAGGCAG    300
CCTCACAACT ACTACAGTCA CCGAGTAGAG AATGTGGCTT CATCCTCCGG CCCCATGCGC    360
TGGTGGCAGT CCCAGAATGA TGTGAACCCT GTCTCTCTGC AGCTGGACCT GGACAGGAGA    420
TTCCAGCTTC AAGAAGTCAT GATGGAGTTC CAGGGGCCCA TGCCCGCCGG CATGCTGATT    480
GAGCGCTCCT CAGACTTCGG TAAGACCTGG CGAGTGTACC AGTACCTGGC TGCCGACTGC    540
ACCTCCACCT TCCCTCGGGT CCGCCAGGGT CGGCCTCAGA GCTGGCAGGA TGTTCGGTGC    600
CAGTCCCTGC CTCAGAGGCC TAATGCACGC CTAAATGGGG GGAAGGTCCA ACTTAACCTT    660
ATGGATTTAG TGTCTGGGAT TCCAGCAACT CAAAGTCAAA AAATTCAAGA GGTGGGGGAG    720
ATCACAAACT TGAGAGTCAA TTTCACCAGG CTGGCCCCTG TGCCCCAAAG GGGCTACCAC    780
CCTCCCAGCG CCTACTATGC TGTGTCCCAG CTCCGTCTGC AGGGGAGCTG CTTCTGTCAC    840
GGCCATGCTG ATCGCTGCGC ACCCAAGCCT GGGGCCTCTG CAGGCCCCTC CACCGCTGTG    900
CAGGTCCACG ATGTCTGTGT CTGCCAGCAC AACACTGCCG GCCCAAATTG TGAGCGCTGT    960
GCACCCTTCT ACAACAACCG GCCCTGGAGA CCGGCGGAGG GCCAGGACGC CCATGAATGC   1020
CAAAGGTGCG ACTGCAATGG GCACTCAGAG ACATGTCACT TTGACCCCGC TGTGTTTGCC   1080
GCCAGCCAGG GGGCATATGG AGGTGTGTGT GACAATTGCC GGGACCACAC CGAAGGCAAG   1140
AACTGTGAGC GGTGTCAGCT GCACTATTTC CGGAACCGGC GCCCGGGAGC TTCCATTCAG   1200
GAGACCTGCA TCTCCTGCGA GTGTGATCCG GATGGGGCAG TGCCAGGGGC TCCCTGTGAC   1260
CCAGTGACCG GGCAGTGTGT GTGCAAGGAG CATGTGCAGG GAGAGCGCTG TGACCTATGC   1320
AAGCCGGGCT TCACTGGACT CACCTACGCC AACCCGCAGG GCTGCCACCG CTGTGACTGC   1380
AACATCCTGG GGTCCCGGAG GGACATGCCG TGTGACGAGG AGAGTGGGCG CTGCCTTTGT   1440
CTGCCCAACG TGGTGGGTCC CAAATGTGAC CAGTGTGCTC CCTACCACTG GAAGCTGGCC   1500
AGTGGCCAGG GCTGTGAACC GTGTGCCTGC GACCCGCACA ACTCCCCTCA GCCCACAGTG   1560
CAACCAGTTC ACAGGGCAGT GCCCTGTCGG GAAGGCTTTG GTGGCCTGAT GTGCAGCGCT   1620
GCAGCCATCC GCCAGTGTCC AGACCGGACC TATGGAGACG TGGCCACAGG ATGCCGAGCC   1680
TGTGACTGTG ATTTCCGGGG AACAGAGGGC CCGGGCTGCG ACAAGGCATC AGGCCGCTGC   1740
CTCTGCCGCC CTGGCTTGAC CGGGCCCCGC TGTGACCAGT GCCAGCGAGG CTACTGCAAT   1800
CGCTACCCGG TGTGCGTGGC CTGCCACCCT TGCTTCCAGA CCTATGATGC GGACCTCCGG   1860
GAGCAGGCCC TGCGCTTTGG TAGACTCCGC AATGCCACCG CCAGCCTGTG GTCAGGGCCT   1920
GGGCTGGAGG ACCGTGGCCT GGCCTCCCGG ATCCTAGATG CAAAGAGTAA GATTGAGCAG   1980
ATCCGAGCAG TTCTCAGCAG CCCCGCAGTC ACAGAGCAGG AGGTGGCTCA GGTGGCCAGT   2040
GCCATCCTCT CCCTCAGGCG AACTCTCCAG GGCCTGCAGC TGGATCTGCC CCTGGAGGAG   2100
GAGACGTTGT CCCTTCCGAG AGACCTGGAG AGTCTTGACA GAAGCTTCAA TGGTCTCCTT   2160
ACTATGTATC AGAGGAAGAG GGAGCAGTTT GAAAAAATAA GCAGTGCTGA TCCTTCAGGA   2220
GCCTTCCGGA TGCTGAGCAC AGCCTACGAG CAGTCAGCCC AGGCTGCTCA GCAGGTCTCC   2280
GACAGCTCGC GCCTTTTGGA CCAGCTCAGG GACAGCCGGA GAGAGGCAGA GAGGCTGGTG   2340
CGGCAGGCGG GAGGAGGAGG AGGCACCGGC AGCCCCAAGC TTGTGGCCCT GAGGCTGGAG   2400
ATGTCTTCGT TGCCTGACCT GACACCCACC TTCAACAAGC TCTGTGGCAA CTCCAGGCAG   2460
ATGGCTTGCA CCCCAATATC ATGCCCTGGT GAGCTATGTC CCCAAGACAA TGGCACAGCC   2520
TGTGGCTCCC GCTGCAGGGG TGTCCTTCCC AGGGCCGGTG GGGCCTTCTT GATGGCGGGG   2580
CAGGTGGCTG AGCAGCTGCG GGGCTTCAAT GCCCAGCTCC AGCGGACCAG GCAGATGATT   2640
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AGGGCAGCCG AGGAATCTGC CTCACAGATT CAATCCAGTG CCCAGCGCTT GGAGACCCAG  2700
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CAGGTCCGGG ACTTCCTAAC AGACCCCGAC ACTGATGCAG CCACTATCCA GGAGGTCAGC  2820
GAGGCCGTGC TGGCCCTGTG GCTGCCCACA GACTCAGCTA CTGTTCTGCA GAAGATGAAT  2880
GAGATCCAGG CCATTGCAGC CAGGCTCCCC AACGTGGACT TGGTGCTGTC CCAGACCAAG  2940
CAGGACATTG CGCGTGCCCG CCGGTTGCAG GCTGAGGCTG AGGAAGCCAG GAGCCGAGCC  3000
CATGCAGTGG AGGGCCAGGT GGAAGATGTG GTTGGGAACC TGCGGCAGGG GACAGTGGCA  3060
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GGGGCAGAGG CAGTCCAGGC CCAGCAGCTT GCGGAAGGTG CCAGCGAGCA GGCATTGAGT  3300
GCCCAAGAGG GATTTGAGAG AATAAAACAA AAGTATGCTG AGTTGAAGGA CCGGTTGGGT  3360
CAGAGTTCCA TGCTGGGTGA GCAGGGTGCC CGGATCCAGA GTGTGAAGAC AGAGGCAGAG  3420
GAGCTGTTTG GGGAGACCAT GGAGATGATG GACAGGATGA AAGACATGGA GTTGGAGCTG  3480
CTGCGGGGCA GCCAGGCCAT CATGCTGCGC TCGGCGGACC TGACAGGACT GGAGAAGCGT  3540
GTGGAGCAGA TCCGTGACCA CATCAATGGG CGCGTGCTCT ACTATGCCAC CTGCAAGTGA  3600
TGCTACAGCT TCCAGCCCGT TGCCCCACTC ATCTGCCGCC TTTGCTTTTG GTTGGGGGCA  3660
GATTGGGTTG GAATGCTTTC CATCTCCAGG AGACTTTCAT GCAGCCTAAA GTACAGCCTG  3720
GACCACCCCT GGTGTGTAGC TAGTAAGATT ACCCTGAGCT GCAGCTGAGC CTGAGCCAAT  3780
GGGACAGTTA CACTTGACAG ACAAAGATGG TGGAGATTGG CATGCCATTG AAACTAAGAG  3840
CTCTCAAGTC AAGGAAGCTG GGCTGGGCAG TATCCCCCGC CTTTAGTTCT CCACTGGGGA  3900
GGAATCCTGG ACCAAGCACA AAAACTTAAC AAAAGTGATG TAAAAATGAA AAGCCAAATA  3960
AAAATCTTTG G
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Seq ID NO: 521 Protein sequence
Protein Accession #: NP_000219.1

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1          11         21         31         41         51
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EWQMKCCKCD SRQPHNYYSH RVENVASSSG PMRWWQSQND VNPVSLQLDL DRRFQLQEVM   120
MEFQGPMPAG MLIERSSDFG KTWRVYQYLA ADCTSTFPRV RQGRPQSWQD VRCQSLPQRP   180
NARLNGGKVQ LNLMDLVSGI PATQSQKIQE VGEITNLRVN FTRLAPVPQR GYHPPSAYYA   240
VSQLRLQGSC FCHGHADRCA PKPGASAGPS TAVQVHDVCV CQHNTAGPNC ERCAPFYNNR   300
PWRPAEGQDA HECQRCDCNG HSETCHFDPA VFAASQGAYG GVCDNCRDHT EGKNCERCQL   360
HYFRNRRPGA SIQETCISCE CDPDGAVPGA PCDPVTGQCV CKEHVQGERC DLCKPGFTGL   420
TYANPQGCHR CDCNILGSRR DMPCDEESGR CLCLPNVVGP KCDQCAPYHW KLASGQGCEP   480
CACDPHNSPQ PTVQPVHRAV PCREGFGGLM CSAAAIRQCP DRTYGDVATG CRACDCDFRG   540
TEGPGCDKAS GRCLCRPGLT GPRCDQCQRG YCNRYPVCVA CHPCFQTYDA DLREQALRFG   600
RLRNATASLW SGPGLEDRGL ASRILDAKSK IEQIRAVLSS PAVTEQEVAQ VASAILSLRR   660
TLQGLQLDLP LEEETLSLPR DLESLDRSFN GLLTMYQRKR EQFEKISSAD PSGAFRMLST   720
AYEQSAQAAQ QVSDSSRLLD QLRDSRREAE RLVRQAGGGG GTGSPKLVAL RLEMSSLPDL   780
TPTFNKLCGN SRQMACTPIS CPGELCPQDN GTACGSRCRG VLPRAGGAFL MAGQVAEQLR   840
GFNAQLQRTR QMIRAAEESA SQIQSSAQRL ETQVSASRSQ MEEDVRRTRL LIQQVRDFLT   900
DPDTDAATIQ EVSEAVLALW LPTDSATVLQ KMNEIQAIAA RLPNVDLVLS QTKQDIARAR   960
RLQAEAEEAR SRAHAVEGQV EDVVGNLRQG TVALQEAQDT MQGTSRSLRL IQDRVAEVQQ  1020
VLRPAEKLVT SMTKQLGDFW TRMEELRHQA RQQGAEAVQA QQLAEGASEQ ALSAQEGFER  1080
IKQKYAELKD RLGQSSMLGE QGARIQSVKT EAEELFGETM EMMDRMKDME LELLRGSQAI  1140
MLRSADLTGL EKRVEQIRDH INGRVLYYAT CK
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Seq ID NO: 522 DNA sequence
Nucleic Acid Accession #: NM_001944.1
Coding sequence: 84..3083

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CCATCTTCGT GGTGGTCATA TTGGTTCATG GAGAATTGCG AATAGAGACT AAAGGTCAAT   180
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ATCCTCCAGT ATTTTCACAA CAAATTTTCA TGGGTGAAAT TGAAGAAAAT AGTGCCTCAA   600
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CAGCACGTAT TGAAGAAAAT ATTTTAAGTT CTGAATTACT TCGATTTCAA GTAACAGATT   960
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Protein Accession #: NP_001935.1

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MTTKLGAATE SGGAAGFATG TVSGAASGFG AATGVGICSS GQSGTMRTRH STGGTNKDYA   780
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LDDSFLDSLG PKFKKLAEIS LGVDGEGKEV QPPSKDSGYG IESCGHPIEV QQTGFVKCQT   900
LSGSQGASAL SASGSVQPAV SIPDPLQHGN YLVTETYSAS GSLVQPSTAG FDPLLTQNVI   960
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Seq ID NO: 524 DNA sequence
Nucleic Acid Accession #: XM_058069.2
Coding sequence: 1..1413

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Seq ID NO: 525 Protein sequence
Protein Accession #: P39900

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KYVDINTFRL SADDIRGIQS LYGDPKENQR LPNPDNSEPA LCDPNLSFDA VTTVGNKIFF   300
FKDRFFWLKV SERPKTSVNL ISSLWPTLPS GIEAAYEIEA RNQVFLFKDD KYWLISNLRP   360
EPNYPKSIHS FGFPNFVKKI DAAVFNPRFY RTYFFVDNQY WRYDERRQMM DPGYPKLITK   420
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Seq ID NO: 526 DNA sequence
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Coding sequence: 64..2590

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Protein Accession #: NP_077741.1

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EAFVEENAFN VEILRIPIED KDLINTANWR VNFTILKGNE NGHFKISTDK ETNEGVLSVV  420
KPLNYEENRQ VNLEIGVNNE APFARDIPRV TALNRALVTV HVRDLDEGPE CTPAAQYVRI  480
KENLAVGSKI NGYKAYDPEN RNGNGLRYKK LHDPKGWITI DEISGSIITS KILDREVETP  540
KNELYNITVL AIDKDDRSCT GTLAVNIEDV NDNPPEILQE YVVICKPKMG YTDILAVDPD  600
EPVHGAPFYF SLPNTSPEIS RLWSLTKVND TAARLSYQKN AGFQEYTIPI TVKDRAGQAA  660
TKLLRVNLCE CTHPTQCRAT SRSTGVILGK WAILAILLGI ALLFSVLLTL VCGVFGATKG  720
KRFPEDLAQQ NLIISNTEAP GDDRVCSANG FMTQTTNNSS QGFCGTMGSG MKNGGQETIE  780
MMKGGNQTLE SCRGAGHHHT LDSCRGGHTE VDNCRYTYSE WHSFTQPRLG EESIRGHTG
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Seq ID NO: 528 DNA sequence
Nucleic Acid Accession #: NM_001941.2
Coding sequence: 64..2754

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CTGACCCTCG TGATCTTCAG TCGTGATGGT GAAGCCTGCA AAAAGGTGAT ACTTAATGTA  180
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TCTGCAGACC TCATCCGGTC AAGTGATCCT GATTTCAGAG TTCTAAATGA TGGGTCAGTG  300
TACACAGCCA GGGCTGTTGC GCTGTCTGAT AAGAAAAGAT CATTTACCAT ATGGCTTTCT  360
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TCGAAGACAA GACACACTAG AGAAACTGTT CTCAGGCGTG CCAAGAGGAG ATGGGCACCT  480
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GAATCTGATG CAGCACAGAA CTATACTGTC TTCTACTCAA TAAGTGGACG TGGAGTTGAT  600
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GGATATTCAG CAGATCTGCC CCTCCCACTA CCCATCAGGG TAGAGGATGA AAATGACAAC  780
CACCCTGTTT TCACAGAAGC AATTTATAAT TTTGAAGTTT TGGAAAGTAG TAGACCTGGT  840
ACTACAGTGG GGGTGGTTTG TGCCACAGAC AGAGATGAAC CGGACACAAT GCATACGCGC  900
CTGAAATACA GCATTTTGCA GCAGACACCA AGGTCACCTG GGCTCTTTTC TGTGCATCCC  960
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Seq ID NO: 529 Protein sequence
Protein Accession #: NP_001932.1

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KTRHTRETVL RRAKRRWAPI PCSMQENSLG PFPLFLQQVE SDAAQNYTVF YSISGRGVDK   180
EPLNLFYIER DTGNLFCTRP VDREEYDVFD LIAYASTADG YSADLPLPLP IRVEDENDNH   240
PVFTEAIYNF EVLESSRPGT TVGVVCATDR DEPDTMHTRL KYSILQQTPR SPGLFSVHPS   300
TGVITTVSHY LDREVVDKYS LIMKVQDMDG QFFGLIGTST CIITVTDSND NAPTFRQNAY   360
EAFVEENAFN VEILRIPIED KDLINTANWR VNFTILKGNE NGHFKISTDK ETNEGVLSVV   420
KPLNYEENRQ VNLEIGVNNE APFARDIPRV TALNRALVTV HVRDLDEGPE CTPAAQYVRI   480
KENLAVGSKI NGYKAYDPEN RNGNGLRYKK LHDPKGWITI DEISGSIITS KILDREVETP   540
KNELYNITVL AIDKDDRSCT GTLAVNIEDV NDNPPEILQE YVVICKPKMG YTDILAVDPD   600
EPVHGAPFYF SLPNTSPEIS RLWSLTKVND TAARLSYQKN AGFQEYTIPI TVKDRAGQAA   660
TKLLRVNLCE CTHPTQCRAT SRSTGVILGK WAILAILLGI ALLFSVLLTL VCGVFGATKG   720
KRFPEDLAQQ NLIISNTEAP GDDRVCSANG FMTQTTNNSS QGFCGTMGSG MKNGGQETIE   780
MMKGGNQTLE SCRGAGHHHT LDSCRGGHTE VDNCRYTYSE WHSFTQPRLG EKLHRCNQNE   840
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Seq ID NO: 530 DNA sequence
Nucleic Acid Accession #: NM_016583.2
Coding sequence: 72..842

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CCATGGCCCA GTTTGGAGGC CTGCCCGTGC CCCTGGACCA GACCCTGCCC TTGAATGTGA   180
ATCCAGCCCT GCCCTTGAGT CCCACAGGTC TTGCAGGAAG CTTGACAAAT GCCCTCAGCA   240
ATGGCCTGCT GTCTGGGGGC CTGTTGGGCA TTCTGGAAAA CCTTCCGCTC CTGGACATCC   300
TGAAGCCTGG AGGAGGTACT TCTGGTGGCC TCCTTGGGGG ACTGCTTGGA AAAGTGACGT   360
CAGTGATTCC TGGCCTGAAC AACATCATTG ACATAAAGGT CACTGACCCC CAGCTGCTGG   420
AACTTGGCCT TGTGCAGAGC CCTGATGGCC ACCGTCTCTA TGTCACCATC CCTCTCGGCA   480
TAAAGCTCCA AGTGAATACG CCCCTGGTCG GTGCAAGTCT GTTGAGGCTG GCTGTGAAGC   540
TGGACATCAC TGCAGAAATC TTAGCTGTGA GAGATAAGCA GGAGAGGATC CACCTGGTCC   600
TTGGTGACTG CACCCATTCC CCTGGAAGCC TGCAAATTTC TCTGCTTGAT GGACTTGGCC   660
CCCTCCCCAT TCAAGGTCTT CTGGACAGCC TCACAGGGAT CTTGAATAAA GTCCTGCCTG   720
AGTTGGTTCA GGGCAACGTG TGCCCTCTGG TCAATGAGGT TCTCAGAGGC TTGGACATCA   780
CCCTGGTGCA TGACATTGTT AACATGCTGA TCCACGGACT ACAGTTTGTC ATCAAGGTCT   840
AAGCCTTCCA GGAAGGGGCT GGCCTCTGCT GAGCTGCTTC CCAGTGCTCA CAGATGGCTG   900
GCCCATGTGC TGGAAGATGA CACAGTTGCC TTCTCTCCGA GGAACCTGCC CCCTCTCCTT   960
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AAAAAAAAAA AAAAAAAAAA AAAAAAAAA
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Seq ID NO: 531 Protein sequence
Protein Accession #: NP_057667.1

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SGGLLGILEN LPLLDILKPG GGTSGGLLGG LLGKVTSVIP GLNNIIDIKV TDPQLLELGL   120
VQSPDGHRLY VTIPLGIKLQ VNTPLVGASL LRLAVKLDIT AEILAVRDKQ ERIHLVLGDC   180
THSPGSLQIS LLDGLGPLPI QGLLDSLTGI LNKVLPELVQ GNVCPLVNEV LRGLDITLVH   240
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Seq ID NO: 532 DNA sequence
Nucleic Acid Accession #: NM_004363.1
Coding sequence: 115..2223

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TCTCCCTCGG CCCCTCCCCA CAGATGGTGC ATCCCCTGGC AGAGGCTCCT GCTCACAGCC   180
TCACTTCTAA CCTTCTGGAA CCCGCCCACC ACTGCCAAGC TCACTATTGA ATCCACGCCG   240
TTCAATGTCG CAGAGGGGAA GGAGGTGCTT CTACTTGTCC ACAATCTGCC CCAGCATCTT   300
TTTGGCTACA GCTGGTACAA AGGTGAAAGA GTGGATGGCA ACCGTCAAAT TATAGGATAT   360
GTAATAGGAA CTCAACAAGC TACCCCAGGG CCCGCATACA GTGGTCGAGA GATAATATAC   420
CCCAATGCAT CCCTGCTGAT CCAGAACATC ATCCAGAATG ACACAGGATT CTACACCCTA   480
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CAGAGCCTCC CGGTCAGTCC CAGGCTGCAG CTGTCCAATG GCAACAGGAC CCTCACTCTA   720
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CACAGCGACC CAGTCATCCT GAATGTCCTC TATGGCCCAG ACGACCCCAC CATTTCCCCC  1380
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TTCCCAGATT TCAGGAAACT TTTTTTCTTT TAAGCTATCC ACTCTTACAG CAATTTGATA  2820
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Seq ID NO: 533 Protein sequence
Protein Accession #: NP_004354.1

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NNQSLPVSPR LQLSNGNRTL TLFNVTRNDT ASYKCETQNP VSARRSDSVI LNVLYGPDAP   240
TISPLNTSYR SGENLNLSCH AASNPPAQYS WFVNGTFQQS TQELFIPNIT VNNSGSYTCQ   300
AHNSDTGLNR TTVTTITVYA EPPKPFITSN NSNPVEDEDA VALTCEPEIQ NTTYLWWVNN   360
QSLPVSPRLQ LSNDNRTLTL LSVTRNDVGP YECGIQNELS VDHSDPVILN VLYGPDDPTI   420
SPSYTYYRPG VNLSLSCHAA SNPPAQYSWL IDGNIQQHTQ ELFISNITEK NSGLYTCQAN   480
NSASGHSRTT VKTITVSAEL PKPSISSNNS KPVEDKDAVA FTCEPEAQNT TYLWWVNGQS   540
LPVSPRLQLS NGNRTLTLFN VTRNDARAYV CGIQNSVSAN RSDPVTLDVL YGPDTPIISP   600
PDSSYLSGAN LNLSCHSASN PSPQYSWRIN GIPQQHTQVL FIAKITPNNN GTYACFVSNL   660
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Seq ID NO: 534 DNA sequence
Nucleic Acid Accession #: NM_006952.1
Coding sequence: 11..793

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1           11          21          31          41          51
|           |           |           |           |           |
AATCCCGACA ATGGCGAAAG ACAACTCAAC TGTTCGTTGC TTCCAGGGCC TGCTGATTTT    60
TGGAAATGTG ATTATTGGTT GTTGCGGCAT TGCCCTGACT GCGGAGTGCA TCTTCTTTGT   120
ATCTGACCAA CACAGCCTCT ACCCACTGCT TGAAGCCACC GACAACGATG ACATCTATGG   180
GGCTGCCTGG ATCGGCATAT TTGTGGGCAT CTGCCTCTTC TGCCTGTCTG TTCTAGGCAT   240
TGTAGGCATC ATGAAGTCCA GCAGGAAAAT TCTTCTGGCG TATTTCATTC TGATGTTTAT   300
AGTATATGCC TTTGAAGTGG CATCTTGTAT CACAGCAGCA ACACAACGAG ACTTTTTCAC   360
ACCCAACCTC TTCCTGAAGC AGATGCTAGA GAGGTACCAA AACAACAGCC CTCCAAACAA   420
TGATGACCAG TGGAAAAACA ATGGAGTCAC CAAAACCTGG GACAGGCTCA TGCTCCAGGA   480
CAATTGCTGT GGCGTAAATG GTCCATCAGA CTGGCAAAAA TACACATCTG CCTTCCGGAC   540
TGAGAATAAT GATGCTGACT ATCCCTGGCC TCGTCAATGC TGTGTTATGA ACAATCTTAA   600
AGAACCTCTC AACCTGGAGG CTTGTAAACT AGGCGTGCCT GGTTTTTATC ACAATCAGGG   660
CTGCTATGAA CTGATCTCTG GTCCAATGAA CCGACACGCC TGGGGGGTTG CCTGGTTTGG   720
ATTTGCCATT CTCTGCTGGA CTTTTTGGGT TCTCCTGGGT ACCATGTTCT ACTGGAGCAG   780
AATTGAATAT TAAGAA
```

Seq ID NO: 535 Protein sequence
Protein Accession #: NP_008883.1

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1           11          21          31          41          51
|           |           |           |           |           |
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MAKDNSTVRC FQGLLIFGNV IIGCCGIALT AECIFFVSDQ HSLYPLLEAT DNDDIYGAAW    60
IGIFVGICLF CLSVLGIVGI MKSSRKILLA YFILMFIVYA FEVASCITAA TQRDFFTPNL   120
FLKQMLERYQ NNSPPNNDDQ WKNNGVTKTW DRLMLQDNCC GVNGPSDWQK YTSAFRTENN   180
DADYPWPRQC CVMNNLKEPL NLEACKLGVP GFYHNQGCYE LISGPMNRHA WGVAWFGFAI   240
LCWTFWVLLG TMFYWSRIEY

Seq ID NO: 536 DNA sequence
Nucleic Acid Accession #: NM_002638.1
Coding sequence: 120..473

1           11          21          31          41          51
|           |           |           |           |           |
CAATACAGCT AAGGAATTAT CCCTTGTAAA TACCACAGAC CCGCCCTGGA GCCAGGCCAA    60
GCTGGACTGC ATAAAGATTG GTATGGCCTT AGCTCTTAGC CAAACACCTT CCTGACACCA   120
TGAGGGCCAG CAGCTTCTTG ATCGTGGTGG TGTTCCTCAT CGCTGGGACG CTGGTTCTAG   180
AGGCAGCTGT CACGGGAGTT CCTGTTAAAG GTCAAGACAC TGTCAAAGGC CGTGTTCCAT   240
TCAATGGACA AGATCCCGTT AAAGGACAAG TTTCAGTTAA AGGTCAAGAT AAAGTCAAAG   300
CGCAAGAGCC AGTCAAAGGT CCAGTCTCCA CTAAGCCTGG CTCCTGCCCC ATTATCTTGA   360
TCCGGTGCGC CATGTTGAAT CCCCCTAACC GCTGCTTGAA AGATACTGAC TGCCCAGGAA   420
TCAAGAAGTG CTGTGAAGGC TCTTGCGGGA TGGCCTGTTT CGTTCCCCAG TGAAGGGAGC   480
CGGTCCTTGC TGCACCTGTG CCGTCCCCAG AGCTACAGGC CCCATCTGGT CCTAAGTCCC   540
TGCTGCCCTT CCCCTTCCCA CACTGTCCAT TCTTCCTCCC ATTCAGGATG CCCACGGCTG   600
GAGCTGCCTC TCTCATCCAC TTTCCAATAA A

Seq ID NO: 537 Protein sequence
Protein Accession #: NP_002629.1

1           11          21          31          41          51
|           |           |           |           |           |
MRASSFLIVV VFLIAGTLVL EAAVTGVPVK GQDTVKGRVP FNGQDPVKGQ VSVKGQDKVK    60
AQEPVKGPVS TKPGSCPIIL IRCAMLNPPN RCLKDTDCPG IKKCCEGSCG MACFVPQ

Seq ID NO: 538 DNA sequence
Nucleic Acid Accession #:  NM_001793.2
Coding sequence: 71..2560

1           11          21          31          41          51
|           |           |           |           |           |
AAAGGGGCAA GAGCTGAGCG GAACACCGGC CCGCCGTCGC GGCAGCTGCT TCACCCCTCT    60
CTCTGCAGCC ATGGGGCTCC CTCGTGGACC TCTCGCGTCT CTCCTCCTTC TCCAGGTTTG   120
CTGGCTGCAG TGCGCGGCCT CCGAGCCGTG CCGGGCGGTC TTCAGGGAGG CTGAAGTGAC   180
CTTGGAGGCG GGAGGCGCGG AGCAGGAGCC CGGCCAGGCG CTGGGGAAAG TATTCATGGG   240
CTGCCCTGGG CAAGAGCCAG CTCTGTTTAG CACTGATAAT GATGACTTCA CTGTGCGGAA   300
TGGCGAGACA GTCCAGGAAA GAAGGTCACT GAAGGAAAGG AATCCATTGA AGATCTTCCC   360
ATCCAAACGT ATCTTACGAA GACACAAGAG AGATTGGGTG GTTGCTCCAA TATCTGTCCC   420
TGAAAATGGC AAGGGTCCCT TCCCCCAGAG ACTGAATCAG CTCAAGTCTA ATAAAGATAG   480
AGACACCAAG ATTTTCTACA GCATCACGGG GCCGGGGGCA GACAGCCCCC CTGAGGGTGT   540
CTTCGCTGTA GAGAAGGAGA CAGGCTGGTT GTTGTTGAAT AAGCCACTGG ACCGGGAGGA   600
GATTGCCAAG TATGAGCTCT TTGGCCACGC TGTGTCAGAG AATGGTGCCT CAGTGGAGGA   660
CCCCATGAAC ATCTCCATCA TCGTGACCGA CCAGAATGAC CACAAGCCCA AGTTTACCCA   720
GGACACCTTC CGAGGGAGTG TCTTAGAGGG AGTCCTACCA GGTACTTCTG TGATGCAGGT   780
GACAGCCACG GATGAGGATG ATGCCATCTA CACCTACAAT GGGGTGGTTG CTTACTCCAT   840
CCATAGCCAA GAACCAAAGG ACCCACACGA CCTCATGTTC ACCATTCACC GGAGCACAGG   900
CACCATCAGC GTCATCTCCA GTGGCCTGGA CCGGGAAAAA GTCCCTGAGT ACACACTGAC   960
CATCCAGGCC ACAGACATGG ATGGGGACGG CTCCACCACC ACGGCAGTGG CAGTAGTGGA  1020
GATCCTTGAT GCCAATGACA ATGCTCCCAT GTTTGACCCC CAGAAGTACG AGGCCCATGT  1080
GCCTGAGAAT GCAGTGGGCC ATGAGGTGCA GAGGCTGACG GTCACTGATC TGGACGCCCC  1140
CAACTCACCA GCGTGGCGTG CCACCTACCT TATCATGGGC GGTGACGACG GGGACCATTT  1200
TACCATCACC ACCCACCCTG AGAGCAACCA GGGCATCCTG ACAACCAGGA AGGGTTTGGA  1260
TTTTGAGGCC AAAAACCAGC ACACCCTGTA CGTTGAAGTG ACCAACGAGG CCCCTTTTGT  1320
GCTGAAGCTC CCAACCTCCA CAGCCACCAT AGTGGTCCAC GTGGAGGATG TGAATGAGGC  1380
ACCTGTGTTT GTCCCACCCT CCAAAGTCGT TGAGGTCCAG GAGGGCATCC CCACTGGGGA  1440
GCCTGTGTGT GTCTACACTG CAGAAGACCC TGACAAGGAG AATCAAAAGA TCAGCTACCG  1500
CATCCTGAGA GACCCAGCAG GGTGGCTAGC CATGGACCCA GACAGTGGGC AGGTCACAGC  1560
TGTGGGCACC CTCGACCGTG AGGATGAGCA GTTTGTGAGG AACAACATCT ATGAAGTCAT  1620
GGTCTTGGCC ATGGACAATG GAAGCCCTCC CACCACTGGC ACGGGAACCC TTCTGCTAAC  1680
ACTGATTGAT GTCAATGACC ATGGCCCAGT CCCTGAGCCC CGTCAGATCA CCATCTGCAA  1740
CCAAAGCCCT GTGCGCCAGG TGCTGAACAT CACGGACAAG GACCTGTCTC CCCACACCTC  1800
CCCTTTCCAG GCCCAGCTCA CAGATGACTC AGACATCTAC TGGACGGCAG AGGTCAACGA  1860
GGAAGGTGAC ACAGTGGTCT TGTCCCTGAA GAAGTTCCTG AAGCAGGATA CATATGACGT  1920
GCACCTTTCT CTGTCTGACC ATGGCAACAA AGAGCAGCTG ACGGTGATCA GGGCCACTGT  1980
GTGCGACTGC CATGGCCATG TCGAAACCTG CCCTGGACCC TGGAAGGGAG GTTTCATCCT  2040
CCCTGTGCTG GGGGCTGTCC TGGCTCTGCT GTTCCTCCTG CTGGTGCTGC TTTTGTTGGT  2100
GAGAAAGAAG CGGAAGATCA AGGAGCCCCT CCTACTCCCA GAAGATGACA CCCGTGACAA  2160
CGTCTTCTAC TATGGCGAAG AGGGGGGTGG CGAAGAGGAC CAGGACTATG ACATCACCCA  2220
GCTCCACCGA GGTCTGGAGG CCAGGCCGGA GGTGGTTCTC CGCAATGACG TGGCACCAAC  2280
CATCATCCCG ACACCCATGT ACCGTCCTCG GCCAGCCAAC CCAGATGAAA TCGGCAACTT  2340
TATAATTGAG AACCTGAAGG CGGCTAACAC AGACCCCACA GCCCCGCCCT ACGACACCCT  2400
CTTGGTGTTC GACTATGAGG GCAGCGGCTC CGACGCCGCG TCCCTGAGCT CCCTCACCTC  2460
CTCCGCCTCC GACCAAGACC AAGATTACGA TTATCTGAAC GAGTGGGGCA GCCGCTTCAA  2520
GAAGCTGGCA GACATGTACG GTGGCGGGGA GGACGACTAG GCGGCCTGCC TGCAGGGCTG  2580
GGGACCAAAC GTCAGGCCAC AGAGCATCTC CAAGGGGTCT CAGTTCCCCC TTCAGCTGAG  2640
GACTTCGGAG CTTGTCAGGA AGTGGCCGTA GCAACTTGGC GGAGACAGGC TATGAGTCTG  2700
ACGTTAGAGT GGTTGCTTCC TTAGCCTTTC AGGATGGAGG AATGTGGGCA GTTTGACTTC  2760
AGCACTGAAA ACCTCTCCAC CTGGGCCAGG GTTGCCTCAG AGGCCAAGTT TCCAGAAGCC  2820
TCTTACCTGC CGTAAAATGC TCAACCCTGT GTCCTGGGCC TGGGCCTGCT GTGACTGACC  2880
TACAGTGGAC TTTCTCTCTG GAATGGAACC TTCTTAGGCC TCCTGGTGCA ACTTAATTTT  2940
```

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TTTTTTTAAT GCTATCTTCA AAACGTTAGA GAAAGTTCTT CAAAAGTGCA GCCCAGAGCT  3000
GCTGGGCCCA CTGGCCGTCC TGCATTTCTG GTTTCCAGAC CCCAATGCCT CCCATTCGGA  3060
TGGATCTCTG CGTTTTTATA CTGAGTGTGC CTAGGTTGCC CCTTATTTTT TATTTTCCCT  3120
GTTGCGTTGC TATAGATGAA GGGTGAGGAC AATCGTGTAT ATGTACTAGA ACTTTTTTAT  3180
TAAAGAAACT TTTCCCAGAA AAAAA
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Seq ID NO: 539 Protein sequence
Protein Accession #: NP_001784.2

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1           11          21          31          41          51
|           |           |           |           |           |
MGLPRGPLAS LLLLQVCWLQ CAASEPCRAV FREAEVTLEA GGAEQEPGQA LGKVFMGCPG    60
QEPALFSTDN DDFTVRNGET VQERRSLKER NPLKIFPSKR ILRRHKRDWV VAPISVPENG   120
KGPFPQRLNQ LKSNKDRDTK IFYSITGPGA DSPPEGVFAV EKETGWLLLN KPLDREEIAK   180
YELFGHAVSE NGASVEDPMN ISIIVTDQND HKPKFTQDTF RGSVLEGVLP GTSVMQVTAT   240
DEDDAIYTYN GVVAYSIHSQ EPKDPHDLMF TIHRSTGTIS VISSGLDREK VPEYTLTIQA   300
TDMDGDGSTT TAVAVVEILD ANDNAPMFDP QKYEAHVPEN AVGHEVQRLT VTDLDAPNSP   360
AWRATYLIMG GDDGDHFTIT THPESNQGIL TTRKGLDFEA KNQHTLYVEV TNEAPFVLKL   420
PTSTATIVVH VEDVNEAPVF VPPSKVVEVQ EGIPTGEPVC VYTAEDPDKE NQKISYRILR   480
DPAGWLAMDP DSGQVTAVGT LDREDEQFVR NNIYEVMVLA MDNGSPPTTG TGTLLLTLID   540
VNDHGPVPEP RQITICNQSP VRQVLNITDK DLSPHTSPFQ AQLTDDSDIY WTAEVNEEGD   600
TVVLSLKKFL KQDTYDVHLS LSDHGNKEQL TVIRATVCDC HGHVETCPGP WKGGFILPVL   660
GAVLALLFLL LVLLLLVRKK RKIKEPLLLP EDDTRDNVFY YGEEGGGEED QDYDITQLHR   720
GLEARPEVVL RNDVAPTIIP TPMYRPRPAN PDEIGNFIIE NLKAANTDPT APPYDTLLVF   780
DYEGSGSDAA SLSSLTSSAS DQDQDYDYLN EWGSRFKKLA DMYGGGEDD
```

Seq ID NO: 540 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..672

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGAGGCTCC AAAGACCCCG ACAGGCCCCG GCGGGTGGGA GGCGCGCGCC CCGGGGCGGG    60
CGGGGCTCCC CCTACCGGCC AGACCCGGGG AGAGGCGCGC GGAGGCTGCG AAGGTTCCAG   120
AAGGGCGGGG AGGGGGCGCC GCGCGCTGAC CCTCCCTGGG CACCGCTGGG GACGATGGCG   180
CTGCTCGCCT TGCTGCTGGT CGTGGCCCTA CCGCGGGTGT GGACAGACGC CAACCTGACT   240
GCGAGACAAC GAGATCCAGA GGACTCCCAG CGAACGGACG AGGGTGACAA TAGAGTGTGG   300
TGTCATGTTT GTGAGAGAGA AAACACTTTC GAGTGCCAGA ACCCAAGGAG GTGCAAATGG   360
ACAGAGCCAT ACTGCGTTAT AGCGGCCGTG AAAATATTTC CACGTTTTTT CATGGTTGCG   420
AAGCAGTGCT CCGCTGGTTG TGCAGCGATG GAGAGACCCA AGCCAGAGGA GAAGCGGTTT   480
CTCCTGGAAG AGCCCATGCC CTTCTTTTAC CTCAAGTGTT GTAAAATTCG CTACTGCAAT   540
TTAGAGGGGC CACCTATCAA CTCATCAGTG TTCAAAGAAT ATGCTGGGAG CATGGGTGAG   600
AGCTGTGGTG GGCTGTGGCT GGCCATCCTC CTGCTGCTGG CCTCCATTGC AGCCGGCCTC   660
AGCCTGTCTT GA
```

Seq ID NO: 541 Protein sequence
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MRLQRPRQAP AGGRRAPRGG RGSPYRPDPG RGARRLRRFQ KGGEGAPRAD PPWAPLGTMA    60
LLALLLVVAL PRVWTDANLT ARQRDPEDSQ RTDEGDNRVW CHVCERENTF ECQNPRRCKW   120
TEPYCVIAAV KIFPRFFMVA KQCSAGCAAM ERPKPEEKRF LLEEPMPFFY LKCCKIRYCN   180
LEGPPINSSV FKEYAGSMGE SCGGLWLAIL LLLASIAAGL SLS
```

Seq ID NO: 542 DNA sequence
Nucleic Acid Accession #: XM_035292.2
Coding sequence: 53..1576

```
1           11          21          31          41          51
|           |           |           |           |           |
GCTCGCTGGG CCGCGGCTCC CGGGTGTCCC AGGCCCGGCC GGTGCGCAGA GCATGGCGGG    60
TGCGGGCCCG AAGCGGCGCG CGCTAGCGGC GCCGGCGGCC GAGGAGAAGG AAGAGGCGCG   120
GGAGAAGATG CTGGCCGCCA AGAGCGCGGA CGGCTCGGCG CCGGCAGGCG AGGGCGAGGG   180
CGTGACCCTG CAGCGGAACA TCACGCTGCT CAACGGCGTG GCCATCATCG TGGGGACCAT   240
TATCGGCTCG GGCATCTTCG TGACGCCCAC GGGCGTGCTC AAGGAGGCAG GCTCGCCGGG   300
GCTGGCGCTG GTGGTGTGGG CCGCGTGCGG CGTCTTCTCC ATCGTGGGCG CGCTCTGCTA   360
CGCGGAGCTC GGCACCACCA TCTCCAAATC GGGCGGCGAC TACGCCTACA TGCTGGAGGT   420
CTACGGCTCG CTGCCCGCCT TCCTCAAGCT CTGGATCGAG CTGCTCATCA TCCGGCCTTC   480
ATCGCAGTAC ATCGTGGCCC TGGTCTTCGC CACCTACCTG CTCAAGCCGC TCTTCCCCAC   540
CTGCCCGGTG CCCGAGGAGG CAGCCAAGCT CGTGGCCTGC CTCTGCGTGC TGCTGCTCAC   600
GGCCGTGAAC TGCTACAGCG TGAAGGCCGC CACCCGGGTC CAGGATGCCT TTGCCGCCGC   660
CAAGCTCCTG GCCCTGGCCC TGATCATCCT GCTGGGCTTC GTCCAGATCG GAAAGGGTGA   720
TGTGTCCAAT CTAGATCCCA ACTTCTCATT TGAAGGCACC AAACTGGATG TGGGGAACAT   780
TGTGCTGGCA TTATACAGCG GCCTCTTTGC CTATGGAGGA TGGAATTACT TGAATTTCGT   840
CACAGAGGAA ATGATCAACC CCTACAGAAA CCTGCCCCTG GCCATCATCA TCTCCCTGCC   900
CATCGTGACG CTGGTGTACG TGCTGACCAA CCTGGCCTAC TTCACCACCC TGTCCACCGA   960
GCAGATGCTG TCGTCCGAGG CCGTGGCCGT GGACTTCGGG AACTATCACC TGGGCGTCAT  1020
GTCCTGGATC ATCCCCGTCT TCGTGGGCCT GTCCTGCTTC GGCTCCGTCA ATGGGTCCCT  1080
GTTCACATCC TCCAGGCTCT TCTTCGTGGG GTCCCGGGAA GGCCACCTGC CCTCCATCCT  1140
CTCCATGATC CACCCACAGC TCCTCACCCC CGTGCCGTCC CTCGTGTTCA CGTGTGTGAT  1200
GACGCTGCTC TACGCCTTCT CCAAGGACAT CTTCTCCGTC ATCAACTTCT TCAGCTTCTT  1260
CAACTGGCTC TGCGTGGCCC TGGCCATCAT CGGCATGATC TGGCTGCGCC ACAGAAAGCC  1320
TGAGCTTGAG CGGCCCATCA AGGTGAACCT GGCCCTGCCT GTGTTCTTCA TCCTGGCCTG  1380
CCTCTTCCTG ATCGCCGTCT CCTTCTGGAA GACACCCGTG GAGTGTGGCA TCGGCTTCAC  1440
CATCATCCTC AGCGGGCTGC CCGTCTACTT CTTCGGGGTC TGGTGGAAAA ACAAGCCCAA  1500
GTGGCTCCTC CAGGGCATCT TCTCCACGAC CGTCCTGTGT CAGAAGCTCA TGCAGGTGGT  1560
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CCCCCAGGAG ACATAGCCAG GAGGCCGAGT GGCTGCCGGA GGAGCATGC

Seq ID NO: 543 Protein sequence
Protein Accession #: XP_035292.2

```
1          11         21         31         41         51
|          |          |          |          |          |
MAGAGPKRRA LAAPAAEEKE EAREKMLAAK SADGSAPAGE GEGVTLQRNI TLLNGVAIIV   60
GTIIGSGIFV TPTGVLKEAG SPGLALVVWA ACGVFSIVGA LCYAELGTTI SKSGGDYAYM  120
LEVYGSLPAF LKLWIELLII RPSSQYIVAL VFATYLLKPL FPTCPVPEEA AKLVACLCVL  180
LLTAVNCYSV KAATRVQDAF AAAKLLALAL IILLGFVQIG KGDVSNLDPN FSFEGTKLDV  240
GNIVLALYSG LFAYGGWNYL NFVTEEMINP YRNLPLAIII SLPIVTLVYV LTNLAYFTTL  300
STEQMLSSEA VAVDFGNYHL GVMSWIIPVF VGLSCFGSVN GSLFTSSRLF FVGSREGHLP  360
SILSMIHPQL LTPVPSLVFT CVMTLLYAFS KDIFSVINFF SFFNWLCVAL AIIGMIWLRH  420
RKPELERPIK VNLALPVFFI LACLFLIAVS FWKTPVECGI GFTIILSGLP VYFFGVWWKN  480
KPKWLLQGIF STTVLCQKLM QVVPQET
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Seq ID NO: 544 DNA sequence
Nucleic Acid Accession #: NM_005268.1
Coding sequence: 168..989

```
1          11         21         31         41         51
|          |          |          |          |          |
TAAAAAGCAA AAGAATTCGC GGCCGCGTCG ACACGGGCTT CCCCGAAAAC CTTCCCCGCT   60
TCTGGATATG AAATTCAAGC TGCTTGCTGA GTCCTATTGC CGGCTGCTGG GAGCCAGGAG  120
AGCCCTGAGG AGTAGTCACT CAGTAGCAGC TGACGCGTGG GTCCACCATG AACTGGAGTA  180
TCTTTGAGGG ACTCCTGAGT GGGGTCAACA AGTACTCCAC AGCCTTTGGG CGCATCTGGC  240
TGTCTCTGGT CTTCATCTTC CGCGTGCTGG TGTACCTGGT GACGGCCGAG CGTGTGTGGA  300
GTGATGACCA CAAGGACTTC GACTGCAATA CTCGCCAGCC CGGCTGCTCC AACGTCTGCT  360
TTGATGAGTT CTTCCCTGTG TCCCATGTGC GCCTCTGGGC CCTGCAGCTT ATCCTGGTGA  420
CATGCCCCTC ACTGCTCGTG GTCATGCACG TGGCCTACCG GGAGGTTCAG GAGAAGAGGC  480
ACCGAGAAGC CCATGGGGAG AACAGTGGGC GCCTCTACCT GAACCCCGGC AAGAAGCGGG  540
GTGGGCTCTG GTGGACATAT GTCTGCAGCC TAGTGTTCAA GGCGAGCGTG GACATCGCCT  600
TTCTCTATGT GTTCCACTCA TTCTACCCCA AATATATCCT CCCTCCTGTG GTCAAGTGCC  660
ACGCAGATCC ATGTCCCAAT ATAGTGGACT GCTTCATCTC CAAGCCCTCA GAGAAGAACA  720
TTTTCACCCT CTTCATGGTG GCCACAGCTG CCATCTGCAT CCTGCTCAAC CTCGTGGAGC  780
TCATCTACCT GGTGAGCAAG AGATGCCACG AGTGCCTGGC AGCAAGGAAA GCTCAAGCCA  840
TGTGCACAGG TCATCACCCC CACGGTACCA CCTCTTCCTG CAAACAAGAC GACCTCCTTT  900
CGGGTGACCT CATCTTTCTG GGCTCAGACA GTCATCCTCC TCTCTTACCA GACCGCCCCC  960
GAGACCATGT GAAGAAAACC ATCTTGTGAG GGGCTGCCTG GACTGGTCTG GCAGGTTGGG 1020
CCTGGATGGG GAGGCTCTAG CATCTCTCAT AGGTGCAACC TGAGAGTGGG GGAGCTAAGC 1080
CATGAGGTAG GGGCAGGCAA GAGAGAGGAT TCAGACGCTC TGGGAGCCAG TTCCTAGTCC 1140
TCAACTCCAG CCACCTGCCC CAGCTCGACG GCACTGGGCC AGTTCCCCCT CTGCTCTGCA 1200
GCTCGGTTTC CTTTTCTAGA ATGGAAATAG TGAGGGCCAA TGC
```

Seq ID NO: 545 Protein sequence
Protein Accession #: NP_005259.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MNWSIFEGLL SGVNKYSTAF GRIWLSLVFI FRVLVYLVTA ERVWSDDHKD FDCNTRQPGC   60
SNVCFDEFFP VSHVRLWALQ LILVTCPSLL VVMHVAYREV QEKRHREAHG ENSGRLYLNP  120
GKKRGGLWWT YVCSLVFKAS VDIAFLYVFH SFYPKYILPP VVKCHADPCP NIVDCFISKP  180
SEKNIFTLFM VATAAICILL NLVELIYLVS KRCHECLAAR KAQAMCTGHH PHGTTSSCKQ  240
DDLLSGDLIF LGSDSHPPLL PDRPRDHVKK TIL
```

Seq ID NO: 546 DNA sequence
Nucleic Acid Accession #: NM_002391.1
Coding sequence: 26..457

```
1          11         21         31         41         51
|          |          |          |          |          |
CGGGCGAAGC AGCGCGGGCA GCGAGATGCA GCACCGAGGC TTCCTCCTCC TCACCCTCCT   60
CGCCCTGCTG GCGCTCACCT CCGCGGTCGC CAAAAAGAAA GATAAGGTGA AGAAGGGCGG  120
CCCGGGGAGC GAGTGCGCTG AGTGGGCCTG GGGGCCCTGC ACCCCCAGCA GCAAGGATTG  180
CGGCGTGGGT TTCCGCGAGG GCACCTGCGG GGCCCAGACC CAGCGCATCC GGTGCAGGGT  240
GCCCTGCAAC TGGAAGAAGG AGTTTGGAGC CGACTGCAAG TACAAGTTTG AGAACTGGGG  300
TGCGTGTGAT GGGGGCACAG GCACCAAAGT CCGCCAAGGC ACCCTGAAGA AGGCGCGCTA  360
CAATGCTCAG TGCCAGGAGA CCATCCGCGT CACCAAGCCC TGCACCCCCA AGACCAAAGC  420
AAAGGCCAAA GCCAAGAAAG GGAAGGGAAA GGACTAGACG CCAAGCCTGG ATGCCAAGGA  480
GCCCCTGGTG TCACATGGGG CCTGGCCACG CCCTCCCTCT CCCAGGCCCG AGATGTGACC  540
CACCAGTGCC TTCTGTCTGC TCGTTAGCTT TAATCAATCA TGCCCTGCCT TGTCCCTCTC  600
ACTCCCCAGC CCCACCCCTA AGTGCCCAAA GTGGGGAGGG ACAAGGGATT CTGGGAAGCT  660
TGAGCCTCCC CCAAAGCAAT GTGAGTCCCA GAGCCCGCTT TTGTTCTTCC CCACAATTCC  720
ATTACTAAGA AACACATCAA ATAAACTGAC TTTTTCCCCC CAATAAAAGC TCTTCTTTTT  780
TAATAT
```

Seq ID NO: 547 Protein sequence
Protein Accession #: NP_002382.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MQHRGFLLLT LLALLALTSA VAKKKDKVKK GGPGSECAEW AWGPCTPSSK DCGVGFREGT   60
CGAQTQRIRC RVPCNWKKEF GADCKYKFEN WGACDGGTGT KVRQGTLKKA RYNAQCQETI  120
RVTKPCTPKT KAKAKAKKGK GKD
```

Seq ID NO: 548 DNA sequence

Nucleic Acid Accession #: NM_006783.1
Coding sequence: 1..786

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGGATTGGG GGACGCTGCA CACTTTCATC GGGGGTGTCA ACAAACACTC CACCAGCATC    60
GGGAAGGTGT GGATCACAGT CATCTTTATT TTCCGAGTCA TGATCCTAGT GGTGGCTGCC   120
CAGGAAGTGT GGGGTGACGA GCAAGAGGAC TTCGTCTGCA ACACACTGCA ACCGGGATGC   180
AAAAATGTGT GCTATGACCA CTTTTTCCCG GTGTCCCACA TCCGGCTGTG GGCCCTCCAG   240
CTGATCTTCG TCTCCACCCC AGCGCTGCTG GTGGCCATGC ATGTGGCCTA CTACAGGCAC   300
GAAACCACTC GCAAGTTCAG GCGAGGAGAG AAGAGGAATG ATTTCAAAGA CATAGAGGAC   360
ATTAAAAAGC ACAAGGTTCG GATAGAGGGG TCGCTGTGGT GGACGTACAC CAGCAGCATC   420
TTTTTCCGAA TCATCTTTGA AGCAGCCTTT ATGTATGTGT TTTACTTCCT TTACAATGGG   480
TACCACCTGC CCTGGGTGTT GAAATGTGGG ATTGACCCCT GCCCCAACCT TGTTGACTGC   540
TTTATTTCTA GGCCAACAGA GAAGACCGTG TTTACCATTT TTATGATTTC TGCGTCTGTG   600
ATTTGCATGC TGCTTAACGT GGCAGAGTTG TGCTACCTGC TGCTGAAAGT GTGTTTTAGG   660
AGATCAAAGA GAGCACAGAC GCAAAAAAAT CACCCCAATC ATGCCCTAAA GGAGAGTAAG   720
CAGAATGAAA TGAATGAGCT GATTTCAGAT AGTGGTCAAA ATGCAATCAC AGGTTTCCCA   780
AGCTAA
```

Seq ID NO: 549 Protein sequence
Protein Accession #: NP_006774.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MDWGTLHTFI GGVNKHSTSI GKVWITVIFI FRVMILVVAA QEVWGDEQED FVCNTLQPGC    60
KNVCYDHFFP VSHIRLWALQ LIFVSTPALL VAMHVAYYRH ETTRKFRRGE KRNDFKDIED   120
IKKHKVRIEG SLWWTYTSSI FFRIIFEAAF MYVFYFLYNG YHLPWVLKCG IDPCPNLVDC   180
FISRPTEKTV FTIFMISASV ICMLLNVAEL CYLLLKVCFR RSKRAQTQKN HPNHALKESK   240
QNEMNELISD SGQNAITGFP S
```

Seq ID NO: 550 DNA sequence
Nucleic Acid Accession #: NM_002571.1
Coding sequence: 99..587

```
1           11          21          31          41          51
|           |           |           |           |           |
CATCCCTCTG GCTCCAGAGC TCAGAGCCAC CCACAGCCGC AGCCATGCTG TGCCTCCTGC    60
TCACCCTGGG CGTGGCCCTG GTCTGTGGTG TCCCGGCCAT GGACATCCCC CAGACCAAGC   120
AGGACCTGGA GCTCCCAAAG TTGGCAGGGA CCTGGCACTC CATGGCCATG GCGACCAACA   180
ACATCTCCCT CATGGCGACA CTGAAGGCCC CTCTGAGGGT CCACATCACC TCACTGTTGC   240
CCACCCCCGA GGACAACCTG GAGATCGTTC TGCACAGATG GGAGAACAAC AGCTGTGTTG   300
AGAAGAAGGT CCTTGGAGAG AAGACTGGGA ATCCAAAGAA GTTCAAGATC AACTATACGG   360
TGGCGAACGA GGCCACGCTG CTCGATACTG ACTACGACAA TTTCCTGTTT CTCTGCCTAC   420
AGGACACCAC CACCCCCATC CAGAGCATGA TGTGCCAGTA CCTGGCCAGA GTCCTGGTGG   480
AGGACGATGA GATCATGCAG GGATTCATCA GGGCTTTCAG GCCCCTGCCC AGGCACCTAT   540
GGTACTTGCT GGACTTGAAA CAGATGGAAG AGCCGTGCCG TTTCTAGCTC ACCTCCGCCT   600
CCAGGAAGAC CAGACTCCCA CCCTTCCACA CCTCCAGAGC AGTGGGACTT CCTCCTGCCC   660
TTTCAAAGAA TAACCACAGC TCAGAAGACG ATGACGTGGT CATCTGTGTC GCCATCCCCT   720
TCCTGCTGCA CACCTGCACC ATTGCCATGG GGAGGCTGCT CCCTGGGGGC AGAGTCTCTG   780
GCAGAGGTTA TTAATAAACC CTTGGAGCAT G
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Seq ID NO: 551 Protein sequence
Protein Accession #: NP_002562.1

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1           11          21          31          41          51
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MDIPQTKQDL ELPKLAGTWH SMAMATNNIS LMATLKAPLR VHITSLLPTP EDNLEIVLHR    60
WENNSCVEKK VLGEKTGNPK KFKINYTVAN EATLLDTDYD NFLFLCLQDT TTPIQSMMCQ   120
YLARVLVEDD EIMQGFIRAF RPLPRHLWYL LDLKQMEEPC RF
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Seq ID NO: 552 DNA sequence
Nucleic Acid Accession #: NM_006500.1
Coding sequence: 27..1967

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TCGCCGCCTG CTGCTGCTGT CCTCGCGTCG CGGGTGTGCC CGGAGAGGCT GAGCAGCCTG   120
CGCCTGAGCT GGTGGAGGTG GAAGTGGGCA GCACAGCCCT TCTGAAGTGC GGCCTCTCCC   180
AGTCCCAAGG CAACCTCAGC CATGTCGACT GGTTTTCTGT CCACAAGGAG AAGCGGACGC   240
TCATCTTCCG TGTGCGCCAG GGCCAGGGCC AGAGCGAACC TGGGGAGTAC GAGCAGCGGC   300
TCAGCCTCCA GGACAGAGGG GCTACTCTGG CCCTGACTCA AGTCACCCCC CAAGACGAGC   360
GCATCTTCTT GTGCCAGGGC AAGCGCCCTC GGTCCCAGGA GTACCGCATC CAGCTCCGCG   420
TCTACAAAGC TCCGGAGGAG CCAAACATCC AGGTCAACCC CCTGGGCATC CCTGTGAACA   480
GTAAGGAGCC TGAGGAGGTC GCTACCTGTG TAGGGAGGAA CGGGTACCCC ATTCCTCAAG   540
TCATCTGGTA CAAGAATGGC CGGCCTCTGA AGGAGGAGAA GAACCGGGTC CACATTCAGT   600
CGTCCCAGAC TGTGGAGTCG AGTGGTTTGT ACACCTTGCA GAGTATTCTG AAGGCACAGC   660
TGGTTAAAGA AGACAAAGAT GCCCAGTTTT ACTGTGAGCT CAACTACCGG CTGCCCAGTG   720
GGAACCACAT GAAGGAGTCC AGGGAAGTCA CCGTCCCTGT TTTCTACCCG ACAGAAAAAG   780
TGTGGCTGGA AGTGGAGCCC GTGGGAATGC TGAAGGAAGG GGACCGCGTG GAAATCAGGT   840
GTTTGGCTGA TGGCAACCCT CCACCACACT TCAGCATCAG CAAGCAGAAC CCCAGCACCA   900
GGGAGGCAGA GGAAGAGACA ACCAACGACA ACGGGGTCCT GGTGCTGGAG CCTGCCCGGA   960
AGGAACACAG TGGGCGCTAT GAATGTCAGG CCTGGAACTT GGACACCATG ATATCGCTGC  1020
TGAGTGAACC ACAGGAACTA CTGGTGAACT ATGTGTCTGA CGTCCGAGTG AGTCCCGCAG  1080
CCCCTGAGAG ACAGGAAGGC AGCAGCCTCA CCCTGACCTG TGAGGCAGAG AGTAGCCAGG  1140
ACCTCGAGTT CCAGTGGCTG AGAGAAGAGA CAGACCAGGT GCTGGAAAGG GGGCCTGTGC  1200
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TGCCGGAGCC GGAGAGCCGG GGCGTGGTCA TCGTGGCTGT GATTGTGTGC ATCCTGGTCC  1740
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GCTCAGGGAA GCAGGAGATC ACGCTGCCCC CGTCTCGTAA GACCGAACTT GTAGTTGAAG  1860
TTAAGTCAGA TAAGCTCCCA GAAGAGATGG GCCTCCTGCA GGGCAGCAGC GGTGACAAGA  1920
GGGCTCCGGG AGACCAGGGA GAGAAATACA TCGATCTGAG GCATTAGCCC CGAATCACTT  1980
CAGCTCCCTT CCCTGCCTGG ACCATTCCCA GCTCCCTGCT CACTCTTCTC TCAGCCAAAG  2040
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AGAATGGTAC TTAGGGATGG AAAACGGGGC CTGGCTAGAG CTTCGGGTGT GTGTGTCTGT  3180
CTGTGTGTAT GCATACATAT GTGTGTATAT ATGGTTTTGT CAGGTGTGTA AATTTGCAAA  3240
TTGTTTCCTT TATATATGTA TGTATATATA TATATGAAAA TATATATATA TATGAAAAAT  3300
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AACCTGGGGG CCTGTGAAAC TACAACCAAA AGGCACACAA AACCGTTTCC AGTTGGCAGC  3420
AGAGATCAGG GGTTACCTCT GCTTCTGAGC AAATGGCTCA AGCTCTACCA GAGCAGACAG  3480
CTACCCTACT TTTCAGCAGC AAAACGTCCC GTATGACGCA GCACGAAGGG CCTGGCAGGC  3540
TGTTAGCAGG AGCTATGTCC CTTCCTATCG TTTCCGTCCA CTT
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Seq ID NO: 553 Protein sequence
Protein Accession #: NP_006491.1

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WFSVHKEKRT LIFRVRQGQG QSEPGEYEQR LSLQDRGATL ALTQVTPQDE RIFLCQGKRP   120
RSQEYRIQLR VYKAPEEPNI QVNPLGIPVN SKEPEEVATC VGRNGYPIPQ VIWYKNGRPL   180
KEEKNRVHIQ SSQTVESSGL YTLQSILKAQ LVKEDKDAQF YCELNYRLPS GNHMKESREV   240
TVPVFYPTEK VWLEVEPVGM LKEGDRVEIR CLADGNPPPH FSISKQNPST REAEEETTND   300
NGVLVLEPAR KEHSGRYECQ AWNLDTMISL LSEPQELLVN YVSDVRVSPA APERQEGSSL   360
TLTCEAESSQ DLEFQWLREE TDQVLERGPV LQLHDLKREA GGGYRCVASV PSIPGLNRTQ   420
LVKLAIFGPP WMAFKERKVW VKENMVLNLS CEASGHPRPT ISWNVNGTAS EQDQDPQRVL   480
STLNVLVTPE LLETGVECTA SNDLGKNTSI LFLELVNLTT LTPDSNTTTG LSTSTASPHT   540
RANSTSTERK LPEPESRGVV IVAVIVCILV LAVLGAVLYF LYKKGKLPCR RSGKQEITLP   600
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Seq ID NO: 554 DNA sequence
Nucleic Acid Accession #: NM_003183.3
Coding sequence: 165..2639

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CGAAGGCTGC CCAGAGAGGT GGAGTCGGTA GCGGGGCCGG GAACATGAGG CAGTCTCTCC   180
TATTCCTGAC CAGCGTGGTT CCTTTCGTGC TGGCGCCGCG ACCTCCGGAT GACCCGGGCT   240
TCGGCCCCCA CCAGAGACTC GAGAAGCTTG ATTCTTTGCT CTCAGACTAC GATATTCTCT   300
CTTTATCTAA TATCCAGCAG CATTCGGTAA GAAAAAGAGA TCTACAGACT TCAACACATG   360
TAGAAACACT ACTAACTTTT TCAGCTTTGA AAAGGCATTT TAAATTATAC CTGACATCAA   420
GTACTGAACG TTTTTCACAA AATTTCAAGG TCGTGGTGGT GGATGGTAAA AACGAAAGCG   480
AGTACACTGC AAAATGGCAG GACTTCTTCA CTGGACACGT GGTTGGTGAG CCTGACTCTA   540
GGGTTCTAGC CCACATAAGA GATGATGATG TTATAATCAG AATCAACACA GATGGGGCCG   600
AATATAACAT AGAGCCACTT TGGAGATTTG TTAATGATAC CAAAGACAAA AGAATGTTAG   660
TTTATAAATC TGAAGATATC AAGAATGTTT CACGTTTGCA GTCTCCAAAA GTGTGTGGTT   720
ATTTAAAAGT GGATAATGAA GAGTTGCTCC CAAAAGGGTT AGTAGACAGA GAACCACCTG   780
AAGAGCTTGT TCATCGAGTG AAAAGAAGAG CTGACCCAGA TCCCATGAAG AACACGTGTA   840
AATTATTGGT GGTAGCAGAT CATCGCTTCT ACAGATACAT GGGCAGAGGG GAAGAGAGTA   900
CAACTACAAA TTACTTAATA GAGCTAATTG ACAGAGTTGA TGACATCTAT CGGAACACTT   960
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AGTCTCCACA AGAGGTAAAA CCTGGTGAAA AGCACTACAA CATGGCAAAA AGTTACCCAA  1080
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CTGAGGAAGC ATCTAAAGTT TGCTTGGCAC ACCTTTTCAC ATACCAAGAT TTTGATATGG  1200
GAACTCTTGG ATTAGCTTAT GTTGGCTCTC CCAGAGCAAA CAGCCATGGA GGTGTTTGTC  1260
CAAAGGCTTA TTATAGCCCA GTTGGGAAGA AAAATATCTA TTTGAATAGT GGTTTGACGA  1320
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CTCTGTTTCA CCCCAGTAAC GTCGAAATGC TGAGCAGCAT GGATTCTGCA TCGGTTCGCA  2340
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TTTTATAAGT ATCTTCATGT ATCCCTGTTA CTGATAGGGA TACATGTCTT AGAAAATTCA  3420
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Seq ID NO: 555 Protein sequence
Protein Accession #: NP_003174.2

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QTSTHVETLL TFSALKRHFK LYLTSSTERF SQNFKVVVVD GKNESEYTAK WQDFFTGHVV   120
GEPDSRVLAH IRDDDVIIRI NTDGAEYNIE PLWRFVNDTK DKRMLVYKSE DIKNVSRLQS   180
PKVCGYLKVD NEELLPKGLV DREPPEELVH RVKRRADPDP MKNTCKLLVV ADHRFYRYMG   240
RGEESTTTNY LIELIDRVDD IYRNTSWDNA GFKGYGIQIE QIRILKSPQE VKPGEKHYNM   300
AKSYPNEEKD AWDVKMLLEQ FSFDIAEEAS KVCLAHLFTY QDFDMGTLGL AYVGSPRANS   360
HGGVCPKAYY SPVGKKNIYL NSGLTSTKNY GKTILTKEAD LVTTHELGHN FGAEHDPDGL   420
AECAPNEDQG GKYVMYPIAV SGDHENNKMF SNCSKQSIYK TIESKAQECF QERSNKVCGN   480
SRVDEGEECD PGIMYLNNDT CCNSDCTLKE GVQCSDRNSP CCKNCQFETA QKKCQEAINA   540
TCKGVSYCTG NSSECPPPGN AENDTVCLDL GKCKDGKCIP FCEREQQLES CACNETDNSC   600
KVCCRDLSGR CVPYVDAEQK NLFLRKGKPC TVGFCDMNGK CEKRVQDVIE RFWDFIDQLS   660
INTFGKFLAD NIVGSVLVFS LIFWIPFSIL VHCVDKKLDK QYESLSLFHP SNVEMLSSMD   720
SASVRIIKPF PAPQTPGRLQ PAPVIPSAPA APKLDHQRMD TIQEDPSTDS HMDEDGFEKD   780
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Seq ID NO: 556 DNA sequence
Nucleic Acid Accession #: NM_021832.1
Coding sequence: 164..2248

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GAAAAGTGGA ATAGTTTTTT TTTTTTTTTT TTTTTTTTGC CTTCAACTAA AAACAAAGGA  3060
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TTTTATGTAG CAGGGAAAAT ATATATCTAA ATTTAGAAAT CATTTGGGTT AATATGGCTC  3180
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TGGTAGCCAG TTGAATTTAT GGAATCTACC AACTGTTTAG GGCCCTGATT TGCTGGGCAG  3300
TTTTTCTGTA TTTTATAAGT ATCTTCATGT ATCCCTGTTA CTGATAGGGA TACATGTCTT  3360
AGAAAATTCA CTATTGGCTG GGAGTGGTGG CTCATGCCTG TAATCCCAGC ACTTGGAGAG  3420
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Seq ID NO: 557 Protein sequence
Protein Accession #: NP_068604.1

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QTSTHVETLL TFSALKRHFK LYLTSSTERF SQNFKVVVVD GKNESEYTVK WQDFFTGHVV   120
GEPDSRVLAH IRDDDVIIRI NTDGAEYNIE PLWRFVNDTK DKRMLVYKSE DIKNVSRLQS   180
PKVCGYLKVD NEELLPKGLV DREPPEELVH RVKRRADPDP MKNTCKLLVV ADHRFYRYMG   240
RGEESTTTNY LIELIDRVDD IYRNTSWDNA GFKGYGIQIE QIRILKSPQE VKPGEKHYNM   300
AKSYPNEEKD AWDVKMLLEQ FSFDIAEEAS KVCLAHLFTY QDFDMGTLGL AYVGSPRANS   360
HGGVCPKAYY SPVGKKNIYL NSGLTSTKNY GKTILTKEAD LVTTHELGHN FGAEHDPDGL   420
AECAPNEDQG GKYVMYPIAV SGDHENNKMF SNCSKQSIYK TIESKAQECF QERSNKVCGN   480
SRVDEGEECD PGIMYLNNDT CCNSDCTLKE GVQCSDRNSP CCKNCQFETA QKKCQEAINA   540
TCKGVSYCTG NSSECPPPGN AEDDTVCLDL GKCKDGKCIP FCEREQQLES CACNETDNSC   600
KVCCRDLSGR CVPYVDAEQK NLFLRKGKPC TVGFCDMNGK CEKRVQDVIE RFWDFIDQLS   660
INTFGKFLAD NIVGSVLVFS LIFWIPFSIL VHCV
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Seq ID NO: 558 DNA sequence
Nucleic Acid Accession #: NM_004994.1
Coding sequence: 20..2143

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CCTGAGAACC AATCTCACCG ACAGGCAGCT GGCAGAGGAA TACCTGTACC GCTATGGTTA   180
CACTCGGGTG GCAGAGATGC GTGGAGAGTC GAAATCTCTG GGGCCTGCGC TGCTGCTTCT   240
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GCGAACCCCA CGGTGCGGGG TCCCAGACCT GGGCAGATTC CAAACCTTTG AGGGCGACCT   360
CAAGTGGCAC CACCACAACA TCACCTATTG GATCCAAAAC TACTCGGAAG ACTTGCCGCG   420
GGCGGTGATT GACGACGCCT TTGCCCGCGC CTTCGCACTG TGGAGCGCGG TGACGCCGCT   480
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CATCTTCGAG GGCCGCTCCT ACTCTGCCTG CACCACCGAC GGTCGCTCCG ACGGCTTGCC   780
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TGCCTGCAAC GTGAACATCT TCGACGCCAT CGCGGAGATT GGGAACCAGC TGTATTTGTT  1620
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CAAACTGGTA TTCTGTTCTG GAGGAAAGGG AGGAGTGGAG GTGGGCTGGG CCCTCTCTTC  2280
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Seq ID NO: 559 Protein sequence
Protein Accession #: NP_004985.1

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RGESKSLGPA LLLLQKQLSL PETGELDSAT LKAMRTPRCG VPDLGRFQTF EGDLKWHHHN   120
ITYWIQNYSE DLPRAVIDDA FARAFALWSA VTPLTFTRVY SRDADIVIQF GVAEHGDGYP   180
FDGKDGLLAH AFPPGPGIQG DAHFDDDELW SLGKGVVVPT RFGNADGAAC HFPFIFEGRS   240
YSACTTDGRS DGLPWCSTTA NYDTDDRFGF CPSERLYTRD GNADGKPCQF PFIFQGQSYS   300
ACTTDGRSDG YRWCATTANY DRDKLFGFCP TRADSTVMGG NSAGELCVFP FTFLGKEYST   360
CTSEGRGDGR LWCATTSNFD SDKKWGFCPD QGYSLFLVAA HEFGHALGLD HSSVPEALMY   420
PMYRFTEGPP LHKDDVNGIR HLYGPRPEPE PRPPTTTTPQ PTAPPTVCPT GPPTVHPSER   480
PTAGPTGPPS AGPTGPPTAG PSTATTVPLS PVDDACNVNI FDAIAEIGNQ LYLFKDGKYW   540
RFSEGRGSRP QGPFLIADKW PALPRKLDSV FEEPLSKKLF FFSGRQVWVY TGASVLGPRR   600
LDKLGLGADV AQVTGALRSG RGKMLLFSGR RLWRFDVKAQ MVDPRSASEV DRMFPGVPLD   660
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Seq ID NO: 560 DNA sequence
Nucleic Acid Accession #: NM_000213.1
Coding sequence: 127..5385

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AGCGTCAGCC TCTCTGGGAC CTTGGCAAAC CGCTGCAAGA AGGCCCCAGT GAAGAGCTGC   240
ACGGAGTGTG TCCGTGTGGA TAAGGACTGC GCCTACTGCA CAGACGAGAT GTTCAGGGAC   300
CGGCGCTGCA ACACCCAGGC GGAGCTGCTG GCCGCGGGCT GCCAGCGGGA GAGCATCGTG   360
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Protein Accession #: NP_000204.1

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PQTDMRPEKL KEPWPNSDPP FSFKNVISLT EDVDEFRNKL QGERISGNLD APEGGFDAIL   240
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Seq ID NO: 562 DNA sequence
Nucleic Acid Accession #: NM_013332.1
Coding sequence: 1..63

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Seq ID NO: 563 Protein sequence
Protein Accession #: NP_037464.1

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Seq ID NO: 564 DNA sequence
Nucleic Acid Accession #: NM_023915.1
Coding sequence: 250..1326

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CCTTTGGGGG TCAAATGGCA TACGGCAGTC ACCTATGTGA ACAGCTGCTT GTTTGTGGCC 900
GTGCTGGTGA TTCTGATCGG ATGTTACATA GCCATATCCA GGTACATCCA CAAATCCAGC 960
AGGCAATTCA TAAGTCAGTC AAGCCGAAAG CGAAAACATA ACCAGAGCAT CAGGGTTGTT 1020
GTGGCTGTGT TTTTTACCTG CTTTCTACCA TATCACTTGT GCAGAATTCC TTTTACTTTT 1080
AGTCACTTAG ACAGGCTTTT AGATGAATCT GCACAAAAAA TCCTATATTA CTGCAAAGAA 1140
ATTACACTTT TCTTGTCTGC GTGTAATGTT TGCCTGGATC CAATAATTTA CTTTTTCATG 1200
TGTAGGTCAT TTTCAAGAAG GCTGTTCAAA AAATCAAATA TCAGAACCAG GAGTGAAAGC 1260
ATCAGATCAC TGCAAAGTGT GAGAAGATCG GAAGTTCGCA TATATTATGA TTACACTGAT 1320
GTGTAGGCCT TTTATTGTTT GTTGGAATCG ATATGTACAA AGTGTAAATA AATGTTTCTT 1380
TTCATTATCC TTAAAAAAAA AA

Seq ID NO: 565 Protein sequence
Protein Accession #: NP_076404

1 11 21 31 41 51
MGFNLTLAKL PNNELHGQES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILLN 60
GLAVWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL 120
FYANMYTSIV FLGLISIDRY LKVVKPFGDS RMYSITFTKV LSVCVWVIMA VLSLPNIILT 180
NGQPTEDNIH DCSKLKSPLG VKWHTAVTYV NSCLFVAVLV ILIGCYIAIS RYIHKSSRQF 240
ISQSSRKRKH NQSIRVVVAV FFTCFLPYHL CRIPFTFSHL DRLLDESAQK ILYYCKEITL 300
FLSACNVCLD PIIYFFMCRS FSRRLFKKSN IRTRSESIRS LQSVRRSEVR IYYDYTDV

Seq ID NO: 566 DNA sequence
Nucleic Acid Accession #: NM_005365.1
Coding sequence: 1..948

1 11 21 31 41 51
ATGTCTCTCG AGCAGAGGAG TCCGCACTGC AAGCCTGATG AAGACCTTGA AGCCCAAGGA 60
GAGGACTTGG GCCTGATGGG TGCACAGGAA CCCACAGGCG AGGAGGAGGA GACTACCTCC 120
TCCTCTGACA GCAAGGAGGA GGAGGTGTCT GCTGCTGGGT CATCAAGTCC TCCCCAGAGT 180
CCTCAGGGAG GCGCTTCCTC CTCCATTTCC GTCTACTACA CTTTATGGAG CCAATTCGAT 240
GAGGGCTCCA GCAGTCAAGA AGAGGAAGAG CCAAGCTCCT CGGTCGACCC AGCTCAGCTG 300
GAGTTCATGT TCCAAGAAGC ACTGAAATTG AAGGTGGCTG AGTTGGTTCA TTTCCTGCTC 360

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CACAAATATC GAGTCAAGGA GCCGGTCACA AAGGCAGAAA TGCTGGAGAG CGTCATCAAA   420
AATTACAAGC GCTACTTTCC TGTGATCTTC GGCAAAGCCT CCGAGTTCAT GCAGGTGATC   480
TTTGGCACTG ATGTGAAGGA GGTGGACCCC GCCGGCCACT CCTACATCCT TGTCACTGCT   540
CTTGGCCTCT CGTGCGATAG CATGCTGGGT GATGGTCATA GCATGCCCAA GGCCGCCCTC   600
CTGATCATTG TCCTGGGTGT GATCCTAACC AAAGACAACT GCGCCCCTGA AGAGGTTATC   660
TGGGAAGCGT TGAGTGTGAT GGGGGTGTAT GTTGGGAAGG AGCACATGTT CTACGGGGAG   720
CCCAGGAAGC TGCTCACCCA AGATTGGGTG CAGGAAAACT ACCTGGAGTA CCGGCAGGTG   780
CCCGGCAGTG ATCCTGCGCA CTACGAGTTC CTGTGGGGTT CCAAGGCCCA CGCTGAAACC   840
AGCTATGAGA AGGTCATAAA TTATTTGGTC ATGCTCAATG CAAGAGAGCC CATCTGCTAC   900
CCATCCCTTT ATGAAGAGGT TTTGGGAGAG GAGCAAGAGG GAGTCTGA
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Seq ID NO: 567 Protein sequence
Protein Accession #: NP_005356.1

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1          11         21         31         41         51
|          |          |          |          |          |
MSLEQRSPHC KPDEDLEAQG EDLGLMGAQE PTGEEEETTS SSDSKEEEVS AAGSSSPPQS    60
PQGGASSSIS VYYTLWSQFD EGSSSQEEEE PSSSVDPAQL EFMFQEALKL KVAELVHFLL   120
HKYRVKEPVT KAEMLESVIK NYKRYFPVIF GKASEFMQVI FGTDVKEVDP AGHSYILVTA   180
LGLSCDSMLG DGHSMPKAAL LIIVLGVILT KDNCAPEEVI WEALSVMGVY VGKEHMFYGE   240
PRKLLTQDWV QENYLEYRQV PGSDPAHYEF LWGSKAHAET SYEKVINYLV MLNAREPICY   300
PSLYEEVLGE EQEGV
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Seq ID NO: 568 DNA sequence
Nucleic Acid Accession #: NM_014400
Coding sequence: 86..1126

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1          11         21         31         41         51
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GGTTACTCAT CCTGGGCTCA GGTAAGAGGG CCCGAGCTCG GAGGCGGCAC ACCCAGGGGG    60
GACGCCAAGG GAGCAGGACG GAGCCATGGA CCCCGCCAGG AAAGCAGGTG CCCAGGCCAT   120
GATCTGGACT GCAGGCTGGC TGCTGCTGCT GCTGCTTCGC GGAGGAGCGC AGGCCCTGGA   180
GTGCTACAGC TGCGTGCAGA AAGCAGATGA CGGATGCTCC CCGAACAAGA TGAAGACAGT   240
GAAGTGCGCG CCGGGCGTGG ACGTCTGCAC CGAGGCCGTG GGGGCGGTGG AGACCATCCA   300
CGGACAATTC TCGCTGGCAG TGCSGGGTTG CGGTTCGGGA CTCCCCGGCA AGAATGACCG   360
CGGCCTGGAT CTTCACGGGC TTCTGGCGTT CATCCAGCTG CAGCAATGCG CTCAGGATCG   420
CTGCAACGCC AAGCTCAACC TCACCTCGCG GGCGCTCGAC CCGGCAGGTA ATGAGAGTGC   480
ATACCCGCCC AACGGCGTGG AGTGCTACAG CTGTGTGGGC CTGAGCCGGG AGGCGTGCCA   540
GGGTACATCG CCGCCGGTCG TGAGCTGCTA CAACGCCAGC GATCATGTCT ACAAGGGCTG   600
CTTCGACGGC AACGTCACCT TGACGGCAGC TAATGTGACT GTGTCCTTGC CTGTCCGGGG   660
CTGTGTCCAG GATGAATTCT GCACTCGGGA TGGAGTAACA GGCCCAGGGT TCACGCTCAG   720
TGGCTCCTGT TGCCAGGGGT CCCGCTGTAA CTCTGACCTC CGCAACAAGA CCTACTTCTC   780
CCCTCGAATC CCACCCCTTG TCCGGCTGCC CCCTCCAGAG CCCACGACTG TGGCCTCAAC   840
CACATCTGTC ACCACTTCTA CCTCGGCCCC AGTGAGACCC ACATCCACCA CCAAACCCAT   900
GCCAGCGCCA ACCAGTCAGA CTCCGAGACA GGGAGTAGAA CACGAGGCCT CCCGGGATGA   960
GGAGCCCAGG TTGACTGGAG GCGCCGCTGG CCACCAGGAC CGCAGCAATT CAGGGCAGTA  1020
TCCTGCAAAA GGGGGGCCCC AGCAGCCCCA TAATAAAGGC TGTGTGGCTC CCACAGCTGG  1080
ATTGGCAGCC CTTCTGTTGG CCGTGGCTGC TGGTGTCCTA CTGTGAGCTT CTCCACCTGG  1140
AAATTTCCCT CTCACCTACT TCTCTGGCCC TGGGTACCCC TCTTCTCATC ACTTCCTGTT  1200
CCCCACCACTG GACTGGGCTG GCCCAGCCCC TGTTTTTCCA ACATTCCCCA GTATCCCCAG  1260
CTTCTGCTGC GCTGGTTTGC GGCTTTGGGA AATAAAATAC CGTTGTATAT ATTCTGGCAG  1320
GGGTGTTCTA GCTTTTTGAG GACAGCTCCT GTATCCTTCT CATCCTTGTC TCTCCGCTTG  1380
TCCTCTTGTG ATGTTAGGAC AGAGTGAGAG AAGTCAGCTG TCACGGGGAA GGTGAGAGAG  1440
AGGATGCTAA GCTTCCTACT CACTTTCTCC TAGCCAGCCT GGACTTTGGA GCGTGGGGTG  1500
GGTGGGACAA TGGCTCCCCA CTCTAAGCAC TGCCTCCCCT ACTCCCCGCA TCTTTGGGGA  1560
ATCGGTTCCC CATATGTCTT CCTTACTAGA CTGTGAGCTC CTCGAGGGCA GGGACCGTGC  1620
CTTATGTCTG TGTGTGATCA GTTTCTGGCA CATAAATGCC TCAATAAAGA TTTAATTACT  1680
TTGTATAGTG AAAAAAAA
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Seq ID NO: 569 Protein sequence
Protein Accession #: NP_055215

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1          11         21         31         41         51
|          |          |          |          |          |
MDPARKAGAQ AMIWTAGWLL LLLLRGGAQA LECYSCVQKA DDGCSPNKMK TVKCAPGVDV    60
CTEAVGAVET IHGQFSLAVX GCGSGLPGKN DRGLDLHGLL AFIQLQQCAQ DRCNAKLNLT   120
SRALDPAGNE SAYPPNGVEC YSCVGLSREA CQGTSPPVVS CYNASDHVYK GCFDGNVTLT   180
AANVTVSLPV RGCVQDEFCT RDGVTGPGFT LSGSCCQGSR CNSDLRNKTY FSPRIPPLVR   240
LPPPEPTTVA STTSVTTSTS APVRPTSTTK PMPAPTSQTP RQGVEHEASR DEEPRLTGGA   300
AGHQDRSNSG QYPAKGGPQQ PHNKGCVAPT AGLAALLLAV AAGVLL
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Seq ID NO: 570 DNA sequence
Nucleic Acid Accession #: NM_005329.1
Coding sequence: 1..1662

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1          11         21         31         41         51
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GTGCTGGGTG GCATCCTGGC AGCCTATGTG ACGGGCTACC AGTTCATCCA CACGGAAAAG   120
CACTACCTGT CCTTCGGCCT GTACGGCGCC ATCCTGGGCC TGCACCTGCT CATTCAGAGC   180
CTTTTTGCCT TCCTGGAGCA CCGGCGCATG CGACGTGCCG GCCAGGCCCT GAAGCTGCCC   240
TCCCCGCGGC GGGGCTCGGT GGCACTGTGC ATTGCCGCGT ACCAGGAGGA CCCTGACTAC   300
TTGCGCAAGT GCCTGCGCTC GGCCCAGCGC ATCTCCTTCC CTGACCTCAA GGTGGTCATG   360
GTGGTGGATG GCAACCGCCA GGAGGACGCC TACATGCTGG ACATCTTCCA CGAGGTGCTG   420
GGCGGCACCG AGCAGGCCGG CTTCTTTGTG TGGCGCAGCA ACTTCCATGA GGCAGGCGAG   480
GGTGAGACGG AGGCCAGCCT GCAGGAGGGC ATGGACCGTG TGCGGGATGT GGTGCGGGCC   540
AGCACCTTCT CGTGCATCAT GCAGAAGTGG GGAGGCAAGC GCGAGGTCAT GTACACGGCC   600
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TTCAAGGCCC TCGGCGATTC GGTGGACTAC ATCCAGGTGT GCGACTCTGA CACTGTGCTG   660
GATCCAGCCT GCACCATCGA GATGCTTCGA GTCCTGGAGG AGGATCCCCA AGTAGGGGGA   720
GTCGGGGGAG ATGTCCAGAT CCTCAACAAG TACGACTCAT GGATTTCCTT CCTGAGCAGC   780
GTGCGGTACT GGATGGCCTT CAACGTGGAG CGGGCCTGCC AGTCCTACTT TGGCTGTGTG   840
CAGTGTATTA GTGGGCCCTT GGGCATGTAC CGCAACAGCC TCCTCCAGCA GTTCCTGGAG   900
GACTGGTACC ATCAGAAGTT CCTAGGCAGC AAGTGCAGCT TCGGGGATGA CCGGCACCTC   960
ACCAACCGAG TCCTGAGCCT TGGCTACCGA ACTAAGTATA CCGCGCGCTC CAAGTGCCTC  1020
ACAGAGACCC CCACTAAGTA CCTCCGGTGG CTCAACCAGC AAACCCGCTG GAGCAAGTCT  1080
TACTTCCGGG AGTGGCTCTA CAACTCTCTG TGGTTCCATA AGCACCACCT CTGGATGACC  1140
TACGAGTCAG TGGTCACGGG TTTCTTCCCC TTCTTCCTCA TTGCCACGGT TATACAGCTT  1200
TTCTACCGGG GCCGCATCTG GAACATTCTC CTCTTCCTGC TGACGGTGCA GCTGGTGGGC  1260
ATTATCAAGG CCACCTACGC CTGCTTCCTT CGGGGCAATG CAGAGATGAT CTTCATGTCC  1320
CTCTACTCCC TCCTCTATAT GTCCAGCCTT CTGCCGGCCA AGATCTTTGC CATTGCTACC  1380
ATCAACAAAT CTGGCTGGGG CACCTCTGGC CGAAAAACCA TTGTGGTGAA CTTCATTGGC  1440
CTCATTCCTG TGTCCATCTG GGTGGCAGTT CTCCTGGGAG GGCTGGCCTA CACAGCTTAT  1500
TGCCAGGACC TGTTCAGTGA GACAGAGCTA GCCTTCCTTG TCTCTGGGGC TATACTGTAT  1560
GGCTGCTACT GGGTGGCCCT CCTCATGCTA TATCTGGCCA TCATCGCCCG GCGATGTGGG  1620
AAGAAGCCGG AGCAGTACAG CTTGGCTTTT GCTGAGGTGT GA
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Seq ID NO: 571 Protein sequence
Protein Accession #: NP_005320.1

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1           11          21          31          41          51
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MPVQLTTALR VVGTSLFALA VLGGILAAYV TGYQFIHTEK HYLSFGLYGA ILGLHLLIQS    60
LFAFLEHRRM RRAGQALKLP SPRRGSVALC IAAYQEDPDY LRKCLRSAQR ISFPDLKVVM   120
VVDGNRQEDA YMLDIFHEVL GGTEQAGFFV WRSNFHEAGE GETEASLQEG MDRVRDVVRA   180
STFSCIMQKW GGKREVMYTA FKALGDSVDY IQVCDSDTVL DPACTIEMLR VLEEDPQVGG   240
VGGDVQILNK YDSWISFLSS VRYWMAFNVE RACQSYFGCV QCISGPLGMY RNSLLQQFLE   300
DWYHQKFLGS KCSFGDDRHL TNRVLSLGYR TKYTARSKCL TETPTKYLRW LNQQTRWSKS   360
YFREWLYNSL WFHKHHLWMT YESVVTGFFP FFLIATVIQL FYRGRIWNIL LFLLTVQLVG   420
IIKATYACFL RGNAEMIFMS LYSLLYMSSL LPAKIFAIAT INKSGWGTSG RKTIVVNFIG   480
LIPVSIWVAV LLGGLAYTAY CQDLFSETEL AFLVSGAILY GCYWVALLML YLAIIARRCG   540
KKPEQYSLAF AEV
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Seq ID NO: 572 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 148-7095

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1           11          21          31          41          51
|           |           |           |           |           |
CACACATACG CACGCACGAT CTCACTTCGA TCTATACACT GGAGGATTAA AACAAACAAA    60
CAAAAAAAAC ATTTCCTTCG CTCCCCCTCC CTCTCCACTC TGAGAAGCAG AGGAGCCGCA   120
CGGCGAGGGG CCGCAGACCG TCTGGAAATG CGAATCCTAA AGCGTTTCCT CGCTTGCATT   180
CAGCTCCTCT GTGTTTGCCG CCTGGATTGG GCTAATGGAT ACTACAGACA ACAGAGAAAA   240
CTTGTTGAAG AGATTGGCTG GTCCTATACA GGAGCACTGA ATCAAAAAAA TTGGGGAAAG   300
AAATATCCAA CATGTAATAG CCCAAAACAA TCTCCTATCA ATATTGATGA AGATCTTACA   360
CAAGTAAATG TGAATCTTAA GAAACTTAAA TTTCAGGGTT GGGATAAAAC ATCATTGGAA   420
AACACATTCA TTCATAACAC TGGGAAAACA GTGGAAATTA ATCTCACTAA TGACTACCGT   480
GTCAGCGGAG GAGTTTCAGA AATGGTGTTT AAAGCAAGCA AGATAACTTT TCACTGGGGA   540
AAATGCAATA TGTCATCTGA TGGATCAGAG CATAGTTTAG AAGGACAAAA ATTTCCACTT   600
GAGATGCAAA TCTACTGCTT TGATGCGGAC CGATTTTCAA GTTTTGAGGA AGCAGTCAAA   660
GGAAAAGGGA AGTTAAGAGC TTTATCCATT TTGTTTGAGG TTGGGACAGA AGAAAATTTG   720
GATTTCAAAG CGATTATTGA TGGAGTCGAA AGTGTTAGTC GTTTTGGGAA GCAGGCTGCT   780
TTAGATCCAT TCATACTGTT GAACCTTCTG CCAAACTCAA CTGACAAGTA TTACATTTAC   840
AATGGCTCAT TGACATCTCC TCCCTGCACA GACACAGTTG ACTGGATTGT TTTTAAAGAT   900
ACAGTTAGCA TCTCTGAAAG CCAGTTGGCT GTTTTTTGTG AAGTTCTTAC AATGCAACAA   960
TCTGGTTATG TCATGCTGAT GGACTACTTA CAAAACAATT TTCGAGAGCA ACAGTACAAG  1020
TTCTCTAGAC AGGTGTTTTC CTCATACACT GGAAAGGAAG AGATTCATGA AGCAGTTTGT  1080
AGTTCAGAAC CAGAAAATGT TCAGGCTGAC CCAGAGAATT ATACCAGCCT TCTTGTTACA  1140
TGGGAAAGAC CTCGAGTCGT TTATGATACC ATGATTGAGA AGTTTGCAGT TTTGTACCAG  1200
CAGTTGGATG GAGAGGACCA AACCAAGCAT GAATTTTTGA CAGATGGCTA TCAAGACTTG  1260
GGTGCTATTC TCAATAATTT GCTACCCAAT ATGAGTTATG TTCTTCAGAT AGTAGCCATA  1320
TGCACTAATG GCTTATATGG AAAATACAGC GACCAACTGA TTGTCGACAT GCCTACTGAT  1380
AATCCTGAAC TTGATCTTTT CCCTGAATTA ATTGGAACTG AAGAAATAAT CAAGGAGGAG  1440
GAAGAGGGAA AAGACATTGA AGAAGGCGCT ATTGTGAATC CTGGTAGAGA CAGTGCTACA  1500
AACCAAATCA GGAAAAAGGA ACCCCAGATT TCTACCACAA CACACTACAA TCGCATAGGG  1560
ACGAAATACA ATGAAGCCAA GACTAACCGA TCCCCAACAA GAGGAAGTGA ATTCTCTGGA  1620
AAGGGTGATG TTCCCAATAC ATCTTTAAAT TCCACTTCCC AACCAGTCAC TAAATTAGCC  1680
ACAGAAAAAG ATATTTCCTT GACTTCTCAG ACTGTGACTG AACTGCCACC TCACACTGTG  1740
GAAGGTACTT CAGCCTCTTT AAATGATGGC TCTAAAACTG TTCTTAGATC TCCACATATG  1800
AACTTGTCGG GGACTGCAGA ATCCTTAAAT ACAGTTTCTA TAACAGAATA TGAGGAGGAG  1860
AGTTTATTGA CCAGTTTCAA GCTTGATACT GGAGCTGAAG ATTCTTCAGG CTCCAGTCCC  1920
GCAACTTCTG CTATCCCATT CATCTCTGAG AACATATCCC AAGGGTATAT ATTTTCCTCC  1980
GAAAACCCAG AGACAATAAC ATATGATGTC CTTATACCAG AATCTGCTAG AAATGCTTCC  2040
GAAGATTCAA CTTCATCAGG TTCAGAAGAA TCACTAAAGG ATCCTTCTAT GGAGGGAAAT  2100
GTGTGGTTTC CTAGCTCTAC AGACATAACA GCACAGCCCG ATGTTGGATC AGGCAGAGAG  2160
AGCTTTCTCC AGACTAATTA CACTGAGATA CGTGTTGATG AATCTGAGAA GACAACCAAG  2220
TCCTTTTCTG CAGGCCCAGT GATGTCACAG GGTCCCTCAG TTACAGATCT GGAAATGCCA  2280
CATTATTCTA CCTTTGCCTA CTTCCCAACT GAGGTAACAC CTCATGCTTT TACCCCATCC  2340
TCCAGACAAC AGGATTTGGT CTCCACGGTC AACGTGGTAT ACTCGCAGAC AACCCAACCG  2400
GTATACAATG GTGAGACACC TCTTCAACCT TCCTACAGTA GTGAAGTCTT TCCTCTAGTC  2460
ACCCCTTTGT TGCTTGACAA TCAGATCCTC AACACTACCC CTGCTGCTTC AAGTAGTGAT  2520
TCGGCCTTGC ATGCTACGCC TGTATTTCCC AGTGTCGATG TGTCATTTGA ATCCATCCTG  2580
TCTTCCTATG ATGGTGCACC TTTGCTTCCA TTTTCCTCTG CTTCCTTCAG TAGTGAATTG  2640
TTTCGCCATC TGCATACAGT TTCTCAAATC CTTCCACAAG TTACTTCAGC TACCGAGAGT  2700
GATAAGGTGC CCTTGCATGC TTCTCTGCCA GTGGCTGGGG GTGATTTGCT ATTAGAGCCC  2760
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AGCCTTGCTC AGTATTCTGA TGTGCTGTCC ACTACTCATG CTGCTTCAGA GACGCTGGAA 2820
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AGCAGTGATG CCATGATGCA TGCACGTTCT TCAGGGCCTG AACCTTCTTA TGCCTTGTCT 2940
GATAATGAGG GCTCCCAACA CATCTTCACT GTTTCTTACA GTTCTGCAAT ACCTGTGCAT 3000
GATTCTGTGG GTGTAACTTA TCAGGGTTCC TTATTTAGCG GCCCTAGCCA TATACCAATA 3060
CCTAAGTCTT CGTTAATAAC CCCAACTGCA TCATTACTGC AGCCTACTCA TGCCCTCTCT 3120
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ACTTTCTGTG CTCTGACAAC CCTTATGCAC CAACTAGAAA AAGAAAATTC CGTGGATGTT 6900
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Seq ID NO: 573 Protein sequence:
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Seq ID NO: 574 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 148-4518

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Seq ID NO: 575 Protein sequence:
Protein Accession #: Eos sequence

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Seq ID NO: 577 Protein sequence:
Protein Accession #: EOS sequence

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Seq ID NO: 578 DNA sequence
Nucleic Acid Accession #: EOS sequence
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Protein Accession #: EOS sequence

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EEKLIIQDFI LEATQDDYVL EVRHFQCPKW PNPDSPISKT FELISVIKEE AANRDGPMIV  2220
HDEHGGVTAG TFCALTTLMH QLEKENSVDV YQVAKMINLM RPGVFADIEQ YQFLYKVILS  2280
LVSTRQEENP STSLDSNGAA LPDGNIAESL ESLV
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Seq ID NO: 584 DNA sequence
Nucleic Acid Accession #: NM_005688.1
Coding sequence: 126..4439

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GGAGAACTCG ACCGTTGGAA TGCCAAGATG CCTTGGAAAC AGCAGCCCGA GCCGAGGGCC   300
TCTCTCTTGA TGCCTCCATG CATTCTCAGC TCAGAATCCT GGATGAGGAG CATCCCAAGG   360
GAAAGTACCA TCATGGCTTG AGTGCTCTGA AGCCCATCCG GACTACTTCC AAACACCAGC   420
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CCCGTGTGGC CCACAAGAAG GGGGAGCTCT CAATGGAAGA CGTGTGGTCT CTGTCCAAGC   540
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GAGGACCCGT TGTTGCCATC TTAGGCATGA TTTATAATGT AATTATTCTG GGACCAACAG  1080
GCTTCCTGGG ATCAGCTGTT TTTATCCTCT TTTACCCAGC AATGATGTTT GCATCACGGC  1140
TCACAGCATA TTTCAGGAGA AAATGCGTGG CCGCCACGGA TGAACGTGTC CAGAAGATGA  1200
ATGAAGTTCT TACTTACATT AAATTTATCA AAATGTATGC CTGGGTCAAA GCATTTTCTC  1260
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GGGACTCCTC CCACTCCAGT ATCCAGAACT CGCCCAAGCT GACCCCCAAA ATGAAAAAAG  1680
ACAAGAGGGC TTCCAGGGGC AAGAAAGAGA AGGTGAGGCA GCTGCAGCGC ACTGAGCATC  1740
AGGCGGTGCT GGCAGAGCAG AAAGGCCACC TCCTCCTGGA CAGTGACGAG CGGCCCAGTC  1800
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Seq ID NO: 585 Protein sequence
Protein Accession #: NP_005679.1

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VAHKKGELSM EDVWSLSKHE SSDVNCRRLE RLWQEELNEV GPDAASLRRV VWIFCRTRLI  180
LSIVCLMITQ LAGFSGPAFM VKHLLEYTQA TESNLQYSLL LVLGLLLTEI VRSWSLALTW  240
ALNYRTGVRL RGAILTMAFK KILKLKNIKE KSLGELINIC SNDGQRMFEA AAVGSLLAGG  300
PVVAILGMIY NVIILGPTGF LGSAVFILFY PAMMFASRLT AYFRRKCVAA TDERVQKMNE  360
VLTYIKFIKM YAWVKAFSQS VQKIREEERR ILEKAGYFQG ITVGVAPIVV VIASVVTFSV  420
HMTLGFDLTA AQAFTVVTVF NSMTFALKVT PFSVKSLSEA SVAVDRFKSL FLMEEVHMIK  480
NKPASPHIKI EMKNATLAWD SSHSSIQNSP KLTPKMKKDK RASRGKKEKV RQLQRTEHQA  540
VLAEQKGHLL LDSDERPSPE EEEGKHIHLG HLRLQRTLHS IDLEIQEGKL VGICGSVGSG  600
KTSLISAILG QMTLLEGSIA ISGTFAYVAQ QAWILNATLR DNILFGKEYD EERYNSVLNS  660
CCLRPDLAIL PSSDLTEIGE RGANLSGGQR QRISLARALY SDRSIYILDD PLSALDAHVG  720
NHIFNSAIRK HLKSKTVLFV THQLQYLVDC DEVIFMKEGC ITERGTHEEL MNLNGDYATI  780
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VPWSVYGVYI QAAGGPLAFL VIMALFMLNV GSTAFSTWWL SYWIKQGSGN TTVTRGNETS   900
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KFFDTTPTGR ILNRFSKDMD EVDVRLPFQA EMFIQNVILV FFCVGMIAGV FPWFLVAVGP  1020
LVILFSVLHI VSRVLIRELK RLDNITQSPF LSHITSSIQG LATIHAYNKG QEFLHRYQEL  1080
LDDNQAPFFL FTCAMRWLAV RLDLISIALI TTTGLMIVLM HGQIPPAYAG LAISYAVQLT  1140
GLFQFTVRLA SETEARFTSV ERINHYIKTL SLEAPARIKN KAPSPDWPQE GEVTFENAEM  1200
RYRENLPLVL KKVSFTIKPK EKIGIVGRTG SGKSSLGMAL FRLVELSGGC IKIDGVRISD  1260
IGLADLRSKL SIIPQEPVLF SGTVRSNLDP FNQYTEDQIW DALERTHMKE CIAQLPLKLE  1320
SEVMENGDNF SVGERQLLCI ARALLRHCKI LILDEATAAM DTETDLLIQE TIREAFADCT  1380
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Seq ID NO: 586 DNA sequence
Nucleic Acid Accession #: NM_001327.1
Coding sequence: 89..631

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GACGGGCGAT GCTGATGGCC CAGGAGGCCC TGGCATTCCT GATGGCCCAG GGGGCAATGC   180
TGGCGGCCCA GGAGAGGCGG GTGCCACGGG CGGCAGAGGT CCCCGGGGCG CAGGGGCAGC   240
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CCTCGCCATG CCTTTCGCGA CACCCATGGA AGCAGAGCTG GCCCGCAGGA GCCTGGCCCA   420
GGATGCCCCA CCGCTTCCCG TGCCAGGGGT GCTTCTGAAG GAGTTCACTG TGTCCGGCAA   480
CATACTGACT ATCCGACTGA CTGCTGCAGA CCACCGCCAA CTGCAGCTCT CCATCAGCTC   540
CTGTCTCCAG CAGCTTTCCC TGTTGATGTG GATCACGCAG TGCTTTCTGC CCGTGTTTTT   600
GGCTCAGCCT CCCTCAGGGC AGAGGCGCTA AGCCCAGCCT GGCGCCCCTT CCTAGGTCAT   660
GCCTCCTCCC CTAGGGAATG GTCCCAGCAC GAGTGGCCAG TTCATTGTGG GGGCCTGATT   720
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Seq ID NO: 587 Protein sequence
Protein Accession #: NP_001318.1

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PRGPHGGAAS GLNGCCRCGA RGPESRLLEF YLAMPFATPM EAELARRSLA QDAPPLPVPG   120
VLLKEFTVSG NILTIRLTAA DHRQLQLSIS SCLQQLSLLM WITQCFLPVF LAQPPSGQRR
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Seq ID NO: 588 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 52..459

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CCTGATGGCC CAGGGGGCAA TGCTGGCGGC CCAGGAGAGG CGGGTGCCAC GGGCGGCAGA   180
GGTCCCCGGG GCGCAGGGGC AGCAAGGGCC TCGGGGCCGA GAGGAGGCGC CCCGCGGGGT   240
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GTGTTTTTGG CTCAGGCTCC CTCAGGGCAG AGGCGCTAAG CCCAGCCTGG CGCCCCTTCC   480
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GCCTGATTGT TTGTCGCTGG AGGAGGACGG CTTACATGTT TGTTTCTGTA GAAAATAAAG   600
CTGAGCTA
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Seq ID NO: 589 Protein sequence
Protein Accession #: Eos sequence

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PRGPHGGAAS AQDGRCPCGA RRPDSRLLQF RLTAADHRQL QLSISSCLQQ LSLLMWITQC   120
FLPVFLAQAP SGQRR
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Seq ID NO: 590 DNA sequence
Nucleic Acid Accession #: NM_005562.1
Coding sequence: 90..3671

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GCTTCTCGCT CCTCCTGCCC GCAGCCCGGG CCACCTCCAG GAGGGAAGTC TGTGATTGCA   180
ATGGGAAGTC CAGGCAGTGT ATCTTTGATC GGGAACTTCA CAGACAAACT GGTAATGGAT   240
TCCGCTGCCT CAACTGCAAT GACAACACTG ATGGCATTCA CTGCGAGAAG TGCAAGAATG   300
GCTTTTACCG GCACAGAGAA AGGGACCGCT GTTTGCCCTG CAATTGTAAC TCCAAAGGTT   360
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CCAGATGCGA CCGATGTCTG CCAGGCTTCC ACATGCTCAC GGATGCGGGG TGCACCCAAG   480
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ACGCGGGCCG CTGTGTCTGC AAGCCAGCTG TTACTGGAGA ACGCTGTGAT AGGTGTCGAT   600
CAGGTTACTA TAATCTGGAT GGGGGGAACC CTGAGGGCTG TACCCAGTGT TTCTGCTATG   660
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ATGAAATTCT TCCTAATGTC AGAACAGAGT GCAACCCAGT CACACTGTGG CCAGTAAAAT  4140
ACTATTGCCT CATATTGTCC TCTGCAAGCT TCTTGCTGAT CAGAGTTCCT CCTACTTACA  4200
ACCCAGGGTG TGAACATGTT CTCCATTTTC AAGCTGGAAG AAGTGAGCAG TGTTGGAGTG  4260
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TTACCTCCAT CCATCCTTCC AACATATATT TATTGAGTAC CTACTGTGTG CCAGGGGCTG  4740
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AGCATTTTTA AAAAATAAAT TTAAACTTAC AAACTTTGTT TGTCACAAGT GGTGTTTATT  4860
GCAATAACCG CTTGGTTTGC AACCTCTTTG CTCAACAGAA CATATGTTGC AAGACCCTCC  4920
CATGGGGGCA CTTGAGTTTT GGCAAGGCTG ACAGAGCTCT GGGTTGTGCA CATTTCTTTG  4980
CATTCCAGCT GTCACTCTGT GCCTTTCTAC AACTGATTGC AACAGACTGT TGAGTTATGA  5040
TAACACCAGT GGGAATTGCT GGAGGAACCA GAGGCACTTC CACCTTGGCT GGGAAGACTA  5100
TGGTGCTGCC TTGCTTCTGT ATTTCCTTGG ATTTTCCTGA AAGTGTTTTT AAATAAAGAA  5160
CAATTGTTAG ATGCC
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Seq ID NO: 591 Protein sequence
Protein Accession #: NP_005553.1

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HMLTDAGCTQ DQRLLDSKCD CDPAGIAGPC DAGRCVCKPA VTGERCDRCR SGYYNLDGGN   180
PEGCTQCFCY GHSASCRSSA EYSVHKITST FHQDVDGWKA VQRNGSPAKL QWSQRHQDVF   240
SSAQRLDPVY FVAPAKFLGN QQVSYGQSLS FDYRVDRGGR HPSAHDVILE GAGLRITAPL   300
MPLGKTLPCG LTKTYTFRLN EHPSNNWSPQ LSYFEYRRLL RNLTALRIRA TYGEYSTGYI   360
DNVTLISARP VSGAPAPWVE QCICPVGYKG QFCQDCASGY KRDSARLGPF GTCIPCNCQG   420
GGACDPDTGD CYSGDENPDI ECADCPIGFY NDPHDPRSCK PCPCHNGFSC SVMPETEEVV   480
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NCEHGAFSCP ACYNQVKIQM DQFMQQLQRM EALISKAQGG DGVVPDTELE GRMQQAEQAL   660
QDILRDAQIS EGASRSLGLQ LAKVRSQENS YQSRLDDLKM TVERVRALGS QYQNRVRDTH   720
RLITQMQLSL AESEASLGNT NIPASDHYVG PNGFKSLAQE ATRLAESHVE SASNMEQLTR   780
ETEDYSKQAL SLVRKALHEG VGSGSGSPDG AVVQGLVEKL EKTKSLAQQL TREATQAEIE   840
ADRSYQHSLR LLDSVSRLQG VSDQSFQVEE AKRIKQKADS LSTLVTRHMD EFKRTQKNLG   900
NWKEEAQQLL QNGKSGREKS DQLLSRANLA KSRAQEALSM GNATFYEVES ILKNLREFDL   960
QVDNRKAEAE EAMKRLSYIS QKVSDASDKT QQAERALGSA AADAQRAKNG AGEALEISSE  1020
IEQEIGSLNL EANVTADGAL AMEKGLASLK SEMREVEGEL ERKELEFDTN MDAVQMVITE  1080
AQKVDTRAKN AGVTIQDTLN TLDGLLHLMD QPLSVDEEGL VLLEQKLSRA KTQINSQLRP  1140
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Seq ID NO: 592 DNA sequence
Nucleic Acid Accession #: AF101051.1
Coding sequence: 221.856

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ACCTGCCACC CCTGAGCCAG CGCGGGCGCC CGAGCGAGTC ATGGCCAACG CGGGGCTGCA   240
GCTGTTGGGC TTCATTCTCG CCTTCCTGGG ATGGATCGGC GCCATCGTCA GCACTGCCCT   300
GCCCCAGTGG AGGATTTACT CCTATGCCGG CGACAACATC GTGACCGCCC AGGCCATGTA   360
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CATCCTCCTG GGAGTGATAG CAATCTTTGT GGCCACCGTT GGCATGAAGT GTATGAAGTG   540
CTTGGAAGAC GATGAGGTGC AGAAGATGAG GATGGCTGTC ATTGGGGGTG CGATATTTCT   600
TCTTGCAGGT CTGGCTATTT TAGTTGCCAC AGCATGGTAT GGCAATAGAA TCGTTCAAGA   660
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CCGAAAAACA ACCTCTTACC CAACACCAAG GCCCTATCCA AAACCTGCAC CTTCCAGCGG   840
GAAAGACTAC GTGTGACACA GAGGCAAAAG GAGAAAATCA TGTTGAAACA AACCGAAAAT   900
GGACATTGAG ATACTATCAT TAACATTAGG ACCTTAGAAT TTTGGGTATT GTAATCTGAA   960
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TTGTATTACT GCTTCCCATT GAGTAATCAT ACTCAAATGG GGGAAGGGGT GCTCCTTAAA  1140
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CTCATTATGT TGATACTAGC ATACTTAAAA TATCTCTAAA ATAGGTAAAT GTATTTAATT  1260
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TTTGATCTTT TTATATTCTT CTACCACACC TGGAAACAGA CCAATAGACA TTTTGGGGTT  3360
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Seq ID NO: 593 Protein sequence
Protein Accession #: AAD16433.1

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QIQCKVFDSL LNLSSTLQAT RALMVVGILL GVIAIFVATV GMKCMKCLED DEVQKMRMAV   120
IGGAIFLLAG LAILVATAWY GNRIVQEFYD PMTPVNARYE FGQALFTGWA AASLCLLGGA   180
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Seq ID NO: 594 DNA sequence
Nucleic Acid Accession #: NM_006180.1
Coding sequence: 352..2820

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CCCCCTGTAA AGCGGTTCGC TATGCCGGGA CCACTGTGAA CCCTGCCGCC TGCCGGAACA   180
CTCTTCGCTC CGGACCAGCT CAGCCTCTGA TAAGCTGGAC TCGGCACGCC CGCAACAAGC   240
ACCGAGGAGT TAAGAGAGCC GCAAGCGCAG GGAAGGCCTC CCCGCACGGG TGGGGGAAAG   300
CGGCCGGTGC AGCGCGGGGA CAGGCACTCG GGCTGGCACT GGCTGCTAGG GATGTCGTCC   360
TGGATAAGGT GGCATGGACC CGCCATGGCG CGGCTCTGGG GCTTCTGCTG GCTGGTTGTG   420
GGCTTCTGGA GGGCCGCTTT CGCCTGTCCC ACGTCCTGCA AATGCAGTGC CTCTCGGATC   480
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AAATTTGTGG CTCATAAAGC ATTTCTGAAA AACAGCAACC TGCAGCACAT CAATTTTACC   720
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Seq ID NO: 595 Protein sequence
Protein Accession #: NP_006171.1

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NFTRNKLTSL SRKHFRHLDL SELILVGNPF TCSCDIMWIK TLQEAKSSPD TQDLYCLNES   180
SKNIPLANLQ IPNCGLPSAN LAAPNLTVEE GKSITLSCSV AGDPVPNMYW DVGNLVSKHM   240
NETSHTQGSL RITNISSDDS GKQISCVAEN LVGEDQDSVN LTVHFAPTIT FLESPTSDHH   300
WCIPFTVKGN PKPALQWFYN GAILNESKYI CTKIHVTNHT EYHGCLQLDN PTHMNNGDYT   360
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DVTDKTGREH LSVYAVVVIA SVVGFCLLVM LFLLKLARHS KFGMKGPASV ISNDDDSASP   480
LHHISNGSNT PSSSEGGPDA VIIGMTKIPV IENPQYFGIT NSQLKPDTFV QHIKRHNIVL   540
KRELGEGAFG KVFLAECYNL CPEQDKILVA VKTLKDASDN ARKDFHREAE LLTNLQHEHI   600
VKFYGVCVEG DPLIMVFEYM KHGDLNKFLR AHGPDAVLMA EGNPPTELTQ SQMLHIAQQI   660
AAGMVYLASQ HFVHRDLATR NCLVGENLLV KIGDFGMSRD VYSTDYYRVG GHTMLPIRWM   720
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PPESIMYRKF TTESDVWSLG VVLWEIFTYG KQPWYQLSNN EVIECITQGR VLQRPRTCPQ 780
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Seq ID NO: 596 DNA sequence
Nucleic Acid Accession #: AF410899
Coding sequence: 483..2999

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CCGCCGGTCG GTGCCCGGCG CGCCGGGCCA TGCAGCGACG GCCGCCGCGG AGCTCCGAGC   240
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GGGAGATTTT CACCTATGGC AAACAGCCCT GGTACCAGCT GTCAAACAAT GAGGTGATAG  2820
AGTGTATCAC TCAGGGCCGA GTCCTGCAGC GACCCCGCAC GTGCCCCCAG GAGGTGTATG  2880
AGCTGATGCT GGGGTGCTGG CAGCGAGAGC CCCACATGAG GAAGAACATC AAGGGCATCC  2940
ATACCCTCCT TCAGAACTTG GCCAAGGCAT CTCCGGTCTA CCTGGACATT CTAGGCTAGG  3000
GCCCTTTTCC CCAGACCGAT CCTTCCCAAC GTACTCCTCA GACGGGCTGA GAGGATGAAC  3060
ATCTTTTAAC TGCCGCTGGA GGCCACCAAG CTGCTCTCCT TCACTCTGAC AGTATTAACA  3120
TCAAAGACTC CGAGAAGCTC TCGAGGGAAG CAGTGTGTAC TTCTTCATCC ATAGACACAG  3180
TATTGACTTC TTTTTGGCAT TATCTCTTTC TCTCTTTCCA TCTCCCTTGG TTGTTCCTTT  3240
TTCTTTTTTT AAATTTTCTT TTTCTTCTTT TTTTTCGTCT TCCCTGCTTC ACGATTCTTA  3300
CCCTTTCTTT TGAATCAATC TGGCTTCTGC ATTACTATTA ACTCTGCATA GACAAAGGCC  3360
TTAACAAACG TAATTTGTTA TATCAGCAGA CACTCCAGTT TGCCCACCAC AACTAACAAT  3420
GCCTTGTTGT ATTCCTGCCT TTGATGTGGA TGAAAAAAAG GGAAAACAAA TATTTCACTT  3480
AAACTTTGTC ACTTCTGCTG TACAGATATC GAGAGTTTCT ATGGATTCAC TTCTATTTAT  3540
TTATTATTAT TACTGTTCTT ATTGTTTTTG GATGGCTTAA GCCTGTGTAT AAAAAAGAAA  3600
ACTTGTGTTC AATCTGTGAA GCCTTTATCT ATGGGAGATT AAAACCAGAG AGAAAGAAGA  3660
TTTATTATGA ACCGCAATAT GGGAGGAACA AAGACAACCA CTGGGATCAG CTGGTGTCAG  3720
TCCCTACTTA GGAAATACTC AGCAACTGTT AGCTGGGAAG AATGTATTCG GCACCTTCCC  3780
CTGAGGACCT TTCTGAGGAG TAAAAAGACT ACTGGCCTCT GTGCCATGGA TGATTCTTTT  3840
CCCATCACCA GAAATGATAG CGTGCAGTAG AGAGCAAAGA TGGCTTCCGT GAGACACAAG  3900
ATGGCGCATA GTGTGCTCGG ACACAGTTTT GTCTTCGTAG GTTGTGATGA TAGCACTGGT  3960
TTGTTTCTCA AGCGCTATCC ACAGAACCTT TGTCAACTTC AGTTGAAAAG AGGTGGATTC  4020
ATGTCCAGAG CTCATTTCGG GGTCAGGTGG GAAAGCC
```

Seq ID NO: 597 Protein sequence
Protein Accession #: AAL67965.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MSSWIRWHGP AMARLWGFCW LVVGFWRAAF ACPTSCKCSA SRIWCSDPSP GIVAFPRLEP    60
NSVDPENITE IFIANQKRLE IINEDDVEAY VGLRNLTIVD SGLKFVAHKA FLKNSNLQHI   120
NFTRNKLTSL SRKHFRHLDL SELILVGNPF TCSCDIMWIK TLQEAKSSPD TQDLYCLNES   180
SKNIPLANLQ IPNCGLPSAN LAAPNLTVEE GKSITLSCSV AGDPVPNMYW DVGNLVSKHM   240
```

NETSHTQGSL RITNISSDDS GKQISCVAEN LVGEDQDSVN LTVHFAPTIT FLESPTSDHH 300
WCIPFTVKGN PKPALQWFYN GAILNESKYI CTKIHVTNHT EYHGCLQLDN PTHMNNGDYT 360
LIAKNEYGKD EKQISAHFMG WPGIDDGANP NYPDVIYEDY GTAANDIGDT TNRSNEIPST 420
DVTDKTGREH LSVYAVVVIA SVVGFCLLVM LFLLKLARHS KFGMKDFSWF GFGKVKSRQG 480
VGPASVISND DDSASPLHHI SNGSNTPSSS EGGPDAVIIG MTKIPVIENP QYFGITNSQL 540
KPDTFVQHIK RHNIVLKREL GEGAFGKVFL AECYNLCPEQ DKILVAVKTL KDASDNARKD 600
FHREAELLTN LQHEHIVKFY GVCVEGDPLI MVFEYMKHGD LNKFLRAHGP DAVLMAEGNP 660
PTELTQSQML HIAQQIAAGM VYLASQHFVH RDLATRNCLV GENLLVKIGD FGMSRDVYST 720
DYYRVGGHTM LPIRWMPPES IMYRKFTTES DVWSLGVVLW EIFTYGKQPW YQLSNNEVIE 780
CITQGRVLQR PRTCPQEVYE LMLGCWQREP HMRKNIKGIH TLLQNLAKAS PVYLDILG

Seq ID NO: 598 DNA sequence
Nucleic Acid Accession #: AB052906
Coding sequence: 74..814

1 11 21 31 41 51
AAAACCTTGA GGTGATTCAT CTTCCAGGCT CTCCTTCCAT CAAGTCTCTC CTCCCTAGCG 60
CTCTGGGTCC TTAATGGCAG CAGCCGCCGC TACCAAGATC CTTCTGTGCC TCCCGCTTCT 120
GCTCCTGCTG TCCGGCTGGT CCCGGGCTGG GCGAGCCGAC CCTCACTCTC TTTGCTATGA 180
CATCACCGTC ATCCCTAAGT TCAGACCTGG ACCACGGTGG TGTGCGGTTC AAGGCCAGGT 240
GGATGAAAAG ACTTTTCTTC ACTATGACTG TGGCAACAAG ACAGTCACAC CTGTCAGTCC 300
CCTGGGGAAG AAACTAAATG TCACAACGGC CTGGAAAGCA CAGAACCCAG TACTGAGAGA 360
GGTGGTGGAC ATACTTACAG AGCAACTGCG TGACATTCAG CTGGAGAATT ACACACCCAA 420
GGAACCCCTC ACCCTGCAGG CCAGGATGTC TTGTGAGCAG AAAGCTGAAG GACACAGCAG 480
TGGATCTTGG CAGTTCAGTT TCGATGGGCA GATCTTCCTC CTCTTTGACT CAGAGAAGAG 540
AATGTGGACA ACGGTTCATC CTGGAGCCAG AAAGATGAAA GAAAAGTGGG AGAATGACAA 600
GGTTGTGGCC ATGTCCTTCC ATTACTTCTC AATGGGAGAC TGTATAGGAT GGCTTGAGGA 660
CTTCTTGATG GGCATGGACA GCACCCTGGA GCCAAGTGCA GGAGCACCAC TCGCCATGTC 720
CTCAGGCACA ACCCAACTCA GGGCCACAGC CACCACCCTC ATCCTTTGCT GCCTCCTCAT 780
CATCCTCCCC TGCTTCATCC TCCCTGGCAT CTGAGGAGAG TCCTTTAGAG TGACAGGTTA 840
AAGCTGATAC CAAAAGGCTC CTGTGAGCAC GGTCTTGATC AAACTCGCCC TTCTGTCTGG 900
CCAGCTGCCC ACGACCTACG GTGTATGTCC AGTGGCCTCC AGCAGATCAT GATGACATCA 960
TGGACCCAAT AGCTCATTCA CTGCCTTGAT TCCTTTTGCC AACAATTTTA CCAGCAGTTA 1020
TACCTAACAT ATTATGCAAT TTTCTCTTGG TGCTACCTGA TGGAATTCCT GCACTTAAAG 1080
TTCTGGCTGA CTAAACAAGA TATATCATTT TCTTTCTTCT CTTTTTGTTT GGAAAATCAA 1140
GTACTTCTTT GAATGATGAT CTCTTTCTTG CAAATGATAT TGTCAGTAAA ATAATCACGT 1200
TAGACTTCAG ACCTCTGGGG ATTCTTTCCG TGTCCTGAAA GAGAATTTTT AAATTATTTA 1260
ATAAGAAAAA ATTTATATTA ATGATTGTTT CCTTTAGTAA TTTATTGTTC TGTACTGATA 1320
TTTAAATAAA GAGTTCTATT TCCCAAAAAA AAAAAAAAAA AA

Seq ID NO: 599 Protein sequence
Protein Accession #: BAB61048.1

1 11 21 31 41 51
MAAAAATKIL LCLPLLLLLS GWSRAGRADP HSLCYDITVI PKFRPGPRWC AVQGQVDEKT 60
FLHYDCGNKT VTPVSPLGKK LNVTTAWKAQ NPVLREVVDI LTEQLRDIQL ENYTPKEPLT 120
LQARMSCEQK AEGHSSGSWQ FSFDGQIFLL FDSEKRMWTT VHPGARKMKE KWENDKVVAM 180
SFHYFSMGDC IGWLEDFLMG MDSTLEPSAG APLAMSSGTT QLRATATTLI LCCLLIILPC 240
FILPGI

Seq ID NO: 600 DNA sequence
Nucleic Acid Accession #: NM_001898.1
Coding sequence: 57..482

1 11 21 31 41 51
GGCTCTCACC CTCCTCTCCT GCAGCTCCAG CTTTGTGCTC TGCCTCTGAG GAGACCATGG 60
CCCAGTATCT GAGTACCCTG CTGCTCCTGC TGGCCACCCT AGCTGTGGCC CTGGCCTGGA 120
GCCCCAAGGA GGAGGATAGG ATAATCCCGG GTGGCATCTA TAACGCAGAC CTCAATGATG 180
AGTGGGTACA GCGTGCCCTT CACTTCGCCA TCAGCGAGTA TAACAAGGCC ACCAAAGATG 240
ACTACTACAG ACGTCCGCTG CGGGTACTAA GAGCCAGGCA ACAGACCGTT GGGGGGGTGA 300
ATTACTTCTT CGACGTAGAG GTGGGCCGCA CCATATGTAC CAAGTCCCAG CCCAACTTGG 360
ACACCTGTGC CTTCCATGAA CAGCCAGAAC TGCAGAAGAA ACAGTTGTGC TCTTTCGAGA 420
TCTACGAAGT TCCCTGGGAG AACAGAAGGT CCCTGGTGAA ATCCAGGTGT CAAGAATCCT 480
AGGGATCTGT GCCAGGCCAT TCGCACCAGC CACCACCCAC TCCCACCCCC TGTAGTGCTC 540
CCACCCCTGG ACTGGTGGCC CCCACCCTGC GGGAGGCCTC CCCATGTGCC TGCGCCAAGA 600
GACAGACAGA GAAGGCTGCA GGAGTCCTTT GTTGCTCAGC AGGGCGCTCT GCCCTCCCTC 660
CTTCCTTCTT GCTTCTAATA GCCCTGGTAC ATGGTACACA CCCCCCCACC TCCTGCAATT 720
AAACAGTAGC ATCGCC

Seq ID NO: 601 Protein sequence
Protein Accession #: NP_001889.1

1 11 21 31 41 51
MAQYL*STLLL* LLATLAVALA WSPKEEDRII PGGIYNADLN DEWVQRALHF AISEYNKATK 60
DDYYRRPLRV LRARQQTVGG VNYFFDVEVG RTICTKSQPN LDTCAFHEQP ELQKKQLCSF 120
EIYEVPWENR RSLVKSRCQE S

Seq ID NO: 602 DNA sequence
Nucleic Acid Accession #: NM_003976.2
Coding sequence: 299.961

1 11 21 31 41 51

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CTCTGAGCTT CTCTGAGCCT TGTTTGCTCA TCTGGAAAAA GGGGATTAAA CCATTTACCT    60
CATGGAGTTG TGAAAGAATA GCTGCAAAGC ACCTAACACA TAGTAAGGTT CCCAGTGCAG   120
CTACTTCTGC TGGGTTGAGT CTAGCTGTGT AGGCCCCTTG TTCCTCACCT GGAGAAACTG   180
GGGTGGCAGG CCGGTCCCCC ACAAAAGATA ACTCATCTCT TAATTTGCAA GCTGCCTCAA   240
CAGGAGGGTG GGGGAACAGC TCAACAATGG CTGATGGGCG CTCCTGGTGT TGATAGAGAT   300
GGAACTTGGA CTTGGAGGCC TCTCCACGCT GTCCCACTGC CCCTGGCCTA GGCGGCAGCC   360
TGCCCTGTGG CCCACCCTGG CCGCTCTGGC TCTGCTGAGC AGCGTCGCAG AGGCCTCCCT   420
GGGCTCCGCG CCCCGCAGCC CTGCCCCCCG CGAAGGCCCC CCGCCTGTCC TGGCGTCCCC   480
CGCCGGCCAC CTGCCGGGGG GACGCACGGC CCGCTGGTGC AGTGGAAGAG CCCGGCGGCC   540
GCCGCCGCAG CCTTCTCGGC CCGCGCCCCC GCCGCCTGCA CCCCCATCTG CTCTTCCCCG   600
CGGGGGCCGC GCGGCGCGGG CTGGGGGCCC GGGCAGCCGC GCTCGGGCAG CGGGGGCGCG   660
GGGCTGCCGC CTGCGCTCGC AGCTGGTGCC GGTGCGCGCG CTCGGCCTGG GCCACCGCTC   720
CGACGAGCTG GTGCGTTTCC GCTTCTGCAG CGGCTCCTGC CGCCGCGCGC GCTCTCCACA   780
CGACCTCAGC CTGGCCAGCC TACTGGGCGC CGGGGCCCTG CGACCGCCCC CGGGCTCCCG   840
GCCCGTCAGC CAGCCCTGCT GCCGACCCAC GCGCTACGAA GCGGTCTCCT TCATGGACGT   900
CAACAGCACC TGGAGAACCG TGGACCGCCT CTCCGCCACC GCCTGCGGCT GCCTGGGCTG   960
AGGGCTCGCT CCAGGGCTTT GCAGACTGGA CCCTTACCGG TGGCTCTTCC TGCCTGGGAC  1020
CCTCCCGCAG AGTCCCACTA GCCAGCGGCC TCAGCCAGGG ACGAAGGCCT CAAAGCTGAG  1080
AGGCCCCTAC CGGTGGGTGA TGGATATCAT CCCCGAACAG GTGAAGGGAC AACTGACTAG  1140
CAGCCCCAGA GCCCTCACCC TGCGGATCCC AGCCTAAAAG ACACCAGAGA CCTCAGCTAT  1200
GGAGCCCTTC GGACCCACTT CTCACAGACT CTGGCACTGG CCAGGCCTCG AACCTGGGAC  1260
CCCTCCTCTG ATGAACACTA CAGTGGCTGA GGCATCAGCC CCCGCCCAGG CCCTGTAGGG  1320
ACAGCATTTG AAGGACACAT ATTGCAGTTG CTTGGTTGAA AGTGCCTGTG CTGGAACTGG  1380
CCTGTACTCA CTCATGGGAG CTGGCCCC
```

Seq ID NO: 603 Protein sequence
Protein Accession #: NP_003967.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MELGLGGLST LSHCPWPRRQ PALWPTLAAL ALLSSVAEAS LGSAPRSPAP REGPPPVLAS    60
PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP RGGRAARAGG PGSRARAAGA   120
RGCRLRSQLV PVRALGLGHR SDELVRFRFC SGSCRRARSP HDLSLASLLG AGALRPPPGS   180
RPVSQPCCRP TRYEAVSFMD VNSTWRTVDR LSATACGCLG
```

Seq ID NO: 604 DNA sequence
Nucleic Acid Accession #: NM_057091.1
Coding sequence: 783..1445

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1           11          21          31          41          51
|           |           |           |           |           |
ACTGGCCGCT GAGAGAAGAA TCGGGTGGAG CAGAGAGCAG CTGCTGCAGG GCAGACAGCC    60
GGACCCCCAA ATCTGCACGT ACCAGCAGTC AGCCGCCCCA CGCAGGGACC GGCTTACCCC   120
TCGCTCCCCG CCCTCACTCA CTTTCTCCCG CCCTCGGCCC GGCCTCCCAG CTCTCTACTT   180
CGCGTGTCTA CAAACTCAAC TCCCGGTTTC CGTGCCTCTC CACCGCTCGA GTTCTCTACT   240
CTCCATATCC GAGGGGCCCC TCCCAGCATC TACCCCCCTC CCAACCTCGG GGGACCTAGC   300
CAAGCTAGGG GGGACTGGAT CCGACGGGTG GAGCAGCCAG GTGAGCCCCG AAAGGTGGGG   360
CGGGGCAGGG GCGCTCCCAG CCCCACCCCG GGATCTGGTG ACGCTGGGGC TGGAATTTGA   420
CACCGGACGG CTGCGGCGGC GGGCAGGAGG CTGCTGAGGG ATGGAGTTGG GCCCGGCCCC   480
CAGACAAGGC CCGGGGGCTC CGCCAGCAGC AGGTCCCTCG GGCCCCAGCC CTCGCTGCCA   540
CCCGGGCCTG GAGCCCCACA CCCGAGGGTG CAGACTGGCT GCCAAGGCCA CACTTTTGGC   600
TAAAAGAGGC ACTGCCAGGT GTACAGTCCT GGGCATGCGC TGTTTGAGCT TCGGGGGAGA   660
GCCCAGCACT GGTCCCCGGA AAGGTGCCTA GAAGAACAAG GTGCAGGACC CCGTGCTGCC   720
TCAACAGGAG GGTGGGGGAA CAGCTCAACA ATGGCTGATG GGCGCTCCTG GTGTTGATAG   780
AGATGGAACT TGGACTTGGA GGCCTCTCCA CGCTGTCCCA CTGCCCCTGG CCTAGGCGGC   840
AGCCTGCCCT GTGGCCCACC CTGGCCGCTC TGGCTCTGCT GAGCAGCGTC GCAGAGGCCT   900
CCCTGGGCTC CGCGCCCCGC AGCCCTGCCC CCCGCGAAGG CCCCCCGCCT GTCCTGGCGT   960
CCCCCGCCGG CCACCTGCCG GGGGGACGCA CGGCCCGCTG GTGCAGTGGA AGAGCCCGGC  1020
GGCCGCCGCC GCAGCCTTCT CGGCCCGCGC CCCCGCCGCC TGCACCCCCA TCTGCTCTTC  1080
CCCGCGGGGG CCGCGCGGCG CGGGCTGGGG GCCCGGGCAG CCGCGCTCGG GCAGCGGGGG  1140
CGCGGGGCTG CCGCCTGCGC TCGCAGCTGG TGCCGGTGCG CGCGCTCGGC CTGGGCCACC  1200
GCTCCGACGA GCTGGTGCGT TTCCGCTTCT GCAGCGGCTC CTGCCGCCGC GCGCGCTCTC  1260
CACACGACCT CAGCCTGGCC AGCCTACTGG GCGCCGGGGC CCTGCGACCG CCCCCGGGCT  1320
CCCGGCCCGT CAGCCAGCCC TGCTGCCGAC CCACGCGCTA CGAAGCGGTC TCCTTCATGG  1380
ACGTCAACAG CACCTGGAGA ACCGTGGACC GCCTCTCCGC CACCGCCTGC GGCTGCCTGG  1440
GCTGAGGGCT CGCTCCAGGG CTTTGCAGAC TGGACCCTTA CCGGTGGCTC TTCCTGCCTG  1500
GGACCCTCCC GCAGAGTCCC ACTAGCCAGC GGCCTCAGCC AGGGACGAAG GCCTCAAAGC  1560
TGAGAGGCCC CTACCGGTGG GTGATGGATA TCATCCCCGA ACAGGTGAAG GGACAACTGA  1620
CTAGCAGCCC CAGAGCCCTC ACCCTGCGGA TCCCAGCCTA AAAGACACCA GAGACCTCAG  1680
CTATGGAGCC CTTCGGACCC ACTTCTCACA GACTCTGGCA CTGGCCAGGC CTCGAACCTG  1740
GGACCCCTCC TCTGATGAAC ACTACAGTGG CTGAGGCATC AGCCCCCGCC CAGGCCCTGT  1800
AGGGACAGCA TTTGAAGGAC ACATATTGCA GTTGCTTGGT TGAAAGTGCC TGTGCTGGAA  1860
CTGGCCTGTA CTCACTCATG GGAGCTGGCC CC
```

Seq ID NO: 605 Protein sequence
Protein Accession #: NP_003967.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MELGLGGLST LSHCPWPRRQ PALWPTLAAL ALLSSVAEAS LGSAPRSPAP REGPPPVLAS    60
PAGHLPGGRT ARWCSGRARR PPPQPSRPAP PPPAPPSALP RGGRAARAGG PGSRARAAGA   120
RGCRLRSQLV PVRALGLGHR SDELVRFRFC SGSCRRARSP HDLSLASLLG AGALRPPPGS   180
RPVSQPCCRP TRYEAVSFMD VNSTWRTVDR LSATACGCLG
```

Seq ID NO: 606 DNA sequence
Nucleic Acid Accession #: NM_057160.1

Coding sequence: 1..714

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGCCCGGCC TGATCTCAGC CCGAGGACAG CCCCTCCTTG AGGTCCTTCC TCCCCAAGCC    60
CACCTGGGTG CCCTCTTTCT CCCTGAGGCT CCACTTGGTC TCTCCGCGCA GCCTGCCCTG   120
TGGCCCACCC TGGCCGCTCT GGCTCTGCTG AGCAGCGTCG CAGAGGCCTC CCTGGGCTCC   180
GCGCCCCGCA GCCCTGCCCC CCGCGAAGGC CCCCCGCCTG TCCTGGCGTC CCCCGCCGGC   240
CACCTGCCGG GGGGACGCAC GGCCCGCTGG TGCAGTGGAA GAGCCCGGCG GCCGCCGCCG   300
CAGCCTTCTC GGCCCGCGCC CCCGCCGCCT GCACCCCCAT CTGCTCTTCC CCGCGGGGGC   360
CGCGCGGCGC GGGCTGGGGG CCCGGGCAGC CGCGCTCGGG CAGCGGGGGC GCGGGGCTGC   420
CGCCTGCGCT CGCAGCTGGT GCCGGTGCGC GCGCTCGGCC TGGGCCACCG CTCCGACGAG   480
CTGGTGCGTT TCCGCTTCTG CAGCGGCTCC TGCCGCCGCG CGCGCTCTCC ACACGACCTC   540
AGCCTGGCCA GCCTACTGGG CGCCGGGGCC CTGCGACCGC CCCCGGGCTC CCGGCCCGTC   600
AGCCAGCCCT GCTGCCGACC CACGCGCTAC GAAGCGGTCT CCTTCATGGA CGTCAACAGC   660
ACCTGGAGAA CCGTGGACCG CCTCTCCGCC ACCGCCTGCG GCTGCCTGGG CTGAGGGCTC   720
GCTCCAGGGC TTTGCAGACT GGACCCTTAC CGGTGGCTCT TCCTGCCTGG GACCCTCCCG   780
CAGAGTCCCA CTAGCCAGCG GCCTCAGCCA GGGACGAAGG CCTCAAAGCT GAGAGGCCCC   840
TACCGGTGGG TGATGGATAT CATCCCCGAA CAGGTGAAGG GACAACTGAC TAGCAGCCCC   900
AGAGCCCTCA CCCTGCGGAT CCCAGCCTAA AAGACACCAG AGACCTCAGC TATGGAGCCC   960
TTCGGACCCA CTTCTCACAG ACTCTGGCAC TGGCCAGGCC TCGAACCTGG GACCCCTCCT  1020
CTGATGAACA CTACAGTGGC TGAGGCATCA GCCCCCGCCC AGGCCCTGTA GGGACAGCAT  1080
TTGAAGGACA CATATTGCAG TTGCTTGGTT GAAAGTGCCT GTGCTGGAAC TGGCCTGTAC  1140
TCACTCATGG GAGCTGGCCC C
```

Seq ID NO: 607 Protein sequence
Protein Accession #: NP_476501.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MPGLISARGQ PLLEVLPPQA HLGALFLPEA PLGLSAQPAL WPTLAALALL SSVAEASLGS    60
APRSPAPREG PPPVLASPAG HLPGGRTARW CSGRARRPPP QPSRPAPPPP APPSALPRGG   120
RAARAGGPGS RARAAGARGC RLRSQLVPVR ALGLGHRSDE LVRFRFCSGS CRRARSPHDL   180
SLASLLGAGA LRPPPGSRPV SQPCCRPTRY EAVSFMDVNS TWRTVDRLSA TACGCLG
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Seq ID NO: 608 DNA sequence
Nucleic Acid Accession #: NM_057090.1
Coding sequence: 29..715

```
1           11          21          31          41          51
|           |           |           |           |           |
CTGATGGGCG CTCCTGGTGT TGATAGAGAT GGAACTTGGA CTTGGAGGCC TCTCCACGCT    60
GTCCCACTGC CCCTGGCCTA GGCGGCAGGC TCCACTTGGT CTCTCCGCGC AGCCTGCCCT   120
GTGGCCCACC CTGGCCGCTC TGGCTCTGCT GAGCAGCGTC GCAGAGGCCT CCCTGGGCTC   180
CGCGCCCCGC AGCCCTGCCC CCCGCGAAGG CCCCCCGCCT GTCCTGGCGT CCCCCGCCGG   240
CCACCTGCCG GGGGGACGCA CGGCCCGCTG GTGCAGTGGA AGAGCCCGGC GGCCGCCGCC   300
GCAGCCTTCT CGGCCCGCGC CCCCGCCGCC TGCACCCCCA TCTGCTCTTC CCCGCGGGGG   360
CCGCGCGGCG CGGGCTGGGG GCCCGGGCAG CCGCGCTCGG GCAGCGGGGG CGCGGGGCTG   420
CCGCCTGCGC TCGCAGCTGG TGCCGGTGCG CGCGCTCGGC CTGGGCCACC GCTCCGACGA   480
GCTGGTGCGT TTCCGCTTCT GCAGCGGCTC CTGCCGCCGC GCGCGCTCTC CACACGACCT   540
CAGCCTGGCC AGCCTACTGG GCGCCGGGGC CCTGCGACCG CCCCCGGGCT CCCGGCCCGT   600
CAGCCAGCCC TGCTGCCGAC CCACGCGCTA CGAAGCGGTC TCCTTCATGG ACGTCAACAG   660
CACCTGGAGA ACCGTGGACC GCCTCTCCGC CACCGCCTGC GGCTGCCTGG GCTGAGGGCT   720
CGCTCCAGGG CTTTGCAGAC TGGACCCTTA CCGGTGGCTC TTCCTGCCTG GGACCCTCCC   780
GCAGAGTCCC ACTAGCCAGC GGCCTCAGCC AGGGACGAAG GCCTCAAAGC TGAGAGGCCC   840
CTACCGGTGG GTGATGGATA TCATCCCCGA ACAGGTGAAG GGACAACTGA CTAGCAGCCC   900
CAGAGCCCTC ACCCTGCGGA TCCCAGCCTA AAAGACACCA GAGACCTCAG CTATGGAGCC   960
CTTCGGACCC ACTTCTCACA GACTCTGGCA CTGGCCAGGC CTCGAACCTG GGACCCCTCC  1020
TCTGATGAAC ACTACAGTGG CTGAGGCATC AGCCCCCGCC CAGGCCCTGT AGGGACAGCA  1080
TTTGAAGGAC ACATATTGCA GTTGCTTGGT TGAAAGTGCC TGTGCTGGAA CTGGCCTGTA  1140
CTCACTCATG GGAGCTGGCC CC
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Seq ID NO: 609 Protein sequence
Protein Accession #: NP_476431.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MELGLGGLST LSHCPWPRRQ APLGLSAQPA LWPTLAALAL LSSVAEASLG SAPRSPAPRE    60
GPPPVLASPA GHLPGGRTAR WCSGRARRPP PQPSRPAPPP PAPPSALPRG GRAARAGGPG   120
SRARAAGARG CRLRSQLVPV RALGLGHRSD ELVRFRFCSG SCRRARSPHD LSLASLLGAG   180
ALRPPPGSRP VSQPCCRPTR YEAVSFMDVN STWRTVDRLS ATACGCLG
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Seq ID NO: 610 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1746

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1           11          21          31          41          51
|           |           |           |           |           |
ATGCCACTGA AGCATTATCT CCTTTTGCTG GTGGGCTGCC AAGCCTGGGG TGCAGGGTTG    60
GCCTACCATG GCTGCCCTAG CGAGTGTACC TGCTCCAGGG CCTCCCAGGT GGAGTGCACC   120
GGGGCACGCA TTGTGGCGGT GCCCACCCCT CTGCCCTGGA ACGCCATGAG CCTGCAGATC   180
CTCAACACGC ACATCACTGA ACTCAATGAG TCCCCGTTCC TCAATATCTC AGCCCTCATC   240
GCCCTGAGGA TTGAGAAGAA TGAGCTGTCG CGCATCACGC CTGGGGCCTT CCGAAACCTG   300
GGCTCGCTGC GCTATCTCAG CCTCGCCAAC AACAAGCTGC AGGTTCTGCC CATCGGCCTC   360
TTCCAGGGCC TGGACAGCCT TGAGTCTCTC CTTCTGTCCA GTAACCAGCT GTTGCAGATC   420
CAGCCGGCCC ACTTCTCCCA GTGCAGCAAC CTCAAGGAGC TGCAGTTGCA CGGCAACCAC   480
CTGGAATACA TCCCTGACGG AGCCTTCGAC CACCTGGTAG GACTCACGAA GCTCAATCTG   540
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GGCAAGAATA GCCTCACCCA CATCTCACCC AGGGTCTTCC AGCACCTGGG CAATCTCCAG   600
GTCCTCCGGC TGTATGAGAA CAGGCTCACG GATATCCCCA TGGGCACTTT TGATGGGCTT   660
GTTAACCTGC AGGAACTGGC TCTACAGCAG AACCAGATTG GACTGCTCTC CCCTGGTCTC   720
TTCCACAACA ACCACAACCT CCAGAGACTC TACCTGTCCA ACAACCACAT CTCCCAGCTG   780
CCACCCAGCA TCTTCATGCA GCTGCCCCAG CTCAACCGTC TTACTCTCTT TGGGAATTCC   840
CTGAAGGAGC TCTCTCTGGG GATCTTCGGG CCCATGCCCA ACCTGCGGGA GCTTTGGCTC   900
TATGACAACC ACATCTCTTC TCTACCCGAC AATGTCTTCA GCAACCTCCG CCAGTTGCAG   960
GTCCTGATTC TTAGCCGCAA TCAGATCAGC TTCATCTCCC CGGGTGCCTT CAACGGGCTA  1020
ACGGAGCTTC GGGAGCTGTC CCTCCACACC AACGCACTGC AGGACCTGGA CGGGAATGTC  1080
TTCCGCATGT TGGCCAACCT GCAGAACATC TCCCTGCAGA ACAATCGCCT CAGACAGCTC  1140
CCAGGGAATA TCTTCGCCAA CGTCAATGGC CTCATGGCCA TCCAGCTGCA GAACAACCAG  1200
CTGGAGAACT TGCCCCTCGG CATCTTCGAT CACCTGGGGA AACTGTGTGA GCTGCGGCTG  1260
TATGACAATC CCTGGAGGTG TGACTCAGAC ATCCTTCCGC TCCGCAACTG GCTCCTGCTC  1320
AACCAGCCTA GGTTAGGGAC GGACACTGTA CCTGTGTGTT TCAGCCCAGC CAATGTCCGA  1380
GGCCAGTCCC TCATTATCAT CAATGTCAAC GTTGCTGTTC CAAGCGTCCA TGTCCCTGAG  1440
GTGCCTAGTT ACCCAGAAAC ACCATGGTAC CCAGACACAC CCAGTTACCC TGACACCACA  1500
TCCGTCTCTT CTACCACTGA GCTAACCAGC CCTGTGGAAG ACTACACTGA TCTGACTACC  1560
ATTCAGGTCA CTGATGACCG CAGCGTTTGG GGCATGACCC AGGCCCAGAG CGGGCTGGCC  1620
ATTGCCGCCA TTGTAATTGG CATTGTCGCC CTGGCCTGCT CCCTGGCTGC CTGCGTCGGC  1680
TGTTGCTGCT GCAAGAAGAG GAGCCAAGCT GTCCTGATGC AGATGAAGGC ACCCAATGAG  1740
TGTTAAAGAG GCAGGCTGGA GCAGGGCTGG GGAATGATGG GACTGGAGGA CCTGGGAATT  1800
TCATCTTTCT GCCTCCACCC CTGGGTCCAT GGAGCTTTCC CGTGATTGCT CTTTCTGGCC  1860
CTAGATAAAG GTGTGCCTAC CTCTTCCTGA CTTGCCTGAT TCTCCCGTAG AGAAGCAGGT  1920
CGTGCCGGAC CTTCCTACAA TCAGGAAGAT AGATCCAACT GGCCATGGCA AAAGCCCTGG  1980
GGATTTCCGA TTCATACCCC TGGGCTTCCT TCGAGAGGGC TCTTCCTCCA AATCCTCCCC  2040
ACCTGTCCTC CAAGAACAGC CTTCCCTGCG CCCAGGCCCC CTCCGGGCCT CTGTAGACTC  2100
AGTTAGTCCA CAGCCTGCTC ACTTCGTGGG AATAGTTCTC CGCTGAGATA GCCCCTCTCG  2160
CCTAAGTATT ATGTAAGTTG ATTTCCCTTC TTTTGTTTCT CTTGTTTGTG CTATGGCTTG  2220
ACCCAGCATG TCCCCTCAAA TGAAAGTTCT CCCCTTGATT TTCTGCTCCT GAAGGCAGGG  2280
TGAGTTCTCT CCTCAAAGAA GACTTCAAAC CATTTAACTG GTTTCTTAAG AGCCGTCAAT  2340
CAGCCTGGTT TTGGGGATGC TATGAAAGAG AGAAGGAAAA TCATGCCGCT CAGTTCCTGG  2400
AGACAGAAGA GCCGTCATCA GTGTCTCACT TGTGATTTTT ATCTGGAAAA GGAAGAAACA  2460
CCCCAGCACA GCAAGCTCAG CCTTTTAGAG AAGGATATTT CCAAACTGCA AACTTTGCTT  2520
TGAAAAGTTT AGCCCTTTAA GGAATGAAAT CATGTAGAAT TTTGGACTTC TAAAAACATT  2580
AAAATCAGCT TATTAATACG GGATAGAGAA AGAAATCTGG TGCCTGGGGG TCCCTGTGTT  2640
CACCCCTAGA GTTTGTTTTA AAATTTTTAA TTGAAGCATG TGAAGTGTAC STGCAGAAAA  2700
GTGGGAACAT GATAGTGTAT GGCTTGGTGG ATTTTCACAA ACTGAACATA CCTGTGTAAT  2760
CAGCATCTAG ACCCAGACCC AGAGCATCAC AAATATCCCC CATCCTGGGC TTTTCCCAGA  2820
GGAGATGGGG GCTTCTGAAG ATGGACTTAC CTGGGACCTG CCCCCCATGA GCCAGGACGG  2880
TCCCCCCACA GTCAGCCTGT GCAAAGGCCC CGTGGCCAGG GGTGGAGGAG AATATGTGGG  2940
TGTGGACAGG ATGGGAGACT GTGGCCTGAA CAGGAGATTT TATTATATCT GGAGACCCTG  3000
AGAGACCCTG AGACCTGGGG CACCATGGCT GGCCAGGTCA GAAGCATCCT GACTGCAGAG  3060
GTCCGTGCAG CCACACCCTC TTCCCTGCCA GCAAGTTGTC TGCGGCTCAT CGGAGGCCCC  3120
TCCGCCTGGA GCCTTCTATG GACGTGATAT GCCTGTATCT GTTTTTAATT TTCATTCTTC  3180
ACTTAGGGGA AGTGAAATCG CTCAGAGATG AGATCCTTTA ATTGAAAACG AAGTGTAACG  3240
GAATCTAGTG TCTTTCTAAT GTGGTAAAAT TCTCCATCAA CATCACAGTC AGCTGGCAGC  3300
TGAACTTCAG AATCTCACTT ACAGCAGGCG ACACGGGGGT ACACCGATGG GTCACACTGG  3360
GTCTGGGGGC TCCCTGGAGC TCCTCCTGCG TGTGGTCTGG TTAGGAGTTG AGTTGTTTGC  3420
TCCAGGGTTA TTCTCCTCCT CGAGTCACAG TCACACGAAT ACCTGCCTTC TCTGGCTTTC  3480
CTGCTATACA CATATTCACA TGGCGCTCAA GAAGTTAGGC TCATGGCAAC GTGTGTCTTT  3540
CTCTGGACAA CTGGCCCAGT TTACAGTGAA ATGGAGAATT TCAGGTCTCC ACGTCTGCCC  3600
AGGAAAGAAC TTCAGCTGAC TCCACGGGGA TCTGGAAATC CACGACCAAT CCCGATCGGC  3660
TCTTATTAGC TCCCCGCTCC ACAAGACACC TGTGCTTTGG AAATCCACCA CCAATCCCGA  3720
TCGGCTCTTA TTAGCTCCCC GCTCCACAAG ACACCTGTGA TCTGGAAATC TACCACCAAT  3780
CCCGATCGGC TCTTATTAGC TCCCCGCTCC ACAAGACACC TGTGACATCC TCCAGGGCCA  3840
CAGGAGCACG TGCTGACCAG TTTTCCCTTC CAGTTCCTGC ACAAAAAGTG TCCAGAGGGC  3900
TGTTTGCAAA CACTAGTGCA CTTTGTAGCT TTTCACCCTC TGTCCCAGGG AATCTAGGAG  3960
AGATGAGGCC CGTCAGAGTC AAGAGATGTC ATCCCCCCAG GGTCTCCAAG GCATTTCCAC  4020
ACTATTGGTG GCACCTGGAG GACATGCACC AAGGCTTGCC AGAGCCAACA GGAAGTGAGC  4080
CCAGAGCATG GCACATGAGC ATCACCCGCT GATGGTGGCC TGCTGTGCCT GGTGCCAACA  4140
GGGGCATCCC GGCCCGTACC CCTCCAGACA GGAAGCATGG GTTTGCCCAC AGACCTGTCG  4200
GGTGCTCCTG TGAGTGGCCT CCAGATGTCT TTGTGCATAG GCACAAGTGG GCCAGGGCTG  4260
GAGGGAGGTG GGAAACCTCA TCATCCGGTG GGCCCTGCCA ATCTTAACCC AGAACCCTTA  4320
GGTATTCCTG GCAGTAGCCA TGACATTGGA GCACCTTCCT CTCCAGCCAG AGGCTGACCT  4380
GAGGGCCACT GTCCTCAGAT GACACCACCC AGGAGCACCC TAGGTGAGGG GTGAGGGCCC  4440
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GCCTCCTTTT CTTCAGCGGG CCCTTCAACC TCTCTGCACC ATGTTGTCTG GCTGAGGAGC  4560
TACTAGAAAA GCTGAGTGGA GTCTCCTTTC CAACAGGATG ATGCATTTGC TCAATTCTCA  4620
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GGTGTTCAAT AGGCTGGGAG TTTTATTTAT CTCTTCAAAC TTTGTACAAG AGCTCATGGC  4980
TTGTCTTGGG CTTTCGTCAT TAAACCAAAG GAAATGGAAG CCATTCCCCT GTTGCTCTCC  5040
TTAGTCTTGG TCATCAGAAC CTCACTTGGT ACCATATAGA TCAAAAGCTT TGTAACCACA  5100
GGAAAAAATA AACTCTTCCA TCCCTTAAAG AATAGAATAG TTTGTCCCTC TCATGGGAAT  5160
TGGGCTGTAT GTATATTGTT CTTCCTCCTT AGAATTTAGA GATACAAGAG TTCTACTTAG  5220
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GAACTTCCAA ACTCAGGAAG TTTGCAGAGA GCAGACAGCT AGAGATAACT CGGGACCCAG  5340
AGTTGGTCGA CAGATGTTAG ATGTATCCTA GCTTTTAGCC ATAAACCACT CAAAGATTCA  5400
GCCCCCAGAT CCCACAGTCA GAACTGAATC TGCGTTGTTG GGAAGCCAGC AGTGGCCTTG  5460
GGAAGGAAGC CATGGCTGTG GTTCAGAGAG GGTGGGCTGG CAAGCCACTT CCGGGGAAAA  5520
CTCCTTCCGC CCCAGGTTTC TTCTTCTCTT AAGGAGAGAT TGTTCTCACC AACCCGCTGC  5580
CTTCATGCTG CCTTCAAAGC TAGATCATGT TTGCCTTGCT TAGAGAATTA CTGCAAATCA  5640
GCCCCAGTGC TTGGCGATGC ATTTACAGAT TTCTAGGCCC TCAGGGTTTT GTAGAGTGTG  5700
AGCCCTGGTG GGCAGGGTTG GGGGGTCTGT CTTCTGCTGG ATGCTGCTTG TAATCCATTT  5760
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GGTGTACAGA ATCAACAATA AATAATATAC ATGTAT

Seq ID NO: 611 Protein sequence
Protein Accession #: BAB84587.1

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LNTHITELNE SPFLNISALI ALRIEKNELS RITPGAFRNL GSLRYLSLAN NKLQVLPIGL   120
FQGLDSLESL LLSSNQLLQI QPAHFSQCSN LKELQLHGNH LEYIPDGAFD HLVGLTKLNL   180
GKNSLTHISP RVFQHLGNLQ VLRLYENRLT DIPMGTFDGL VNLQELALQQ NQIGLLSPGL   240
FHNNHNLQRL YLSNNHISQL PPSIFMQLPQ LNRLTLFGNS LKELSLGIFG PMPNLRELWL   300
YDNHISSLPD NVFSNLRQLQ VLILSRNQIS FISPGAFNGL TELRELSLHT NALQDLDGNV   360
FRMLANLQNI SLQNNRLRQL PGNIFANVNG LMAIQLQNNQ LENLPLGIFD HLGKLCELRL   420
YDNPWRCDSD ILPLRNWLLL NQPRLGTDTV PVCFSPANVR GQSLIIINVN VAVPSVHVPE   480
VPSYPETPWY PDTPSYPDTT SVSSTTELTS PVEDYTDLTT IQVTDDRSVW GMTQAQSGLA   540
IAAIVIGIVA LACSLAACVG CCCCKKRSQA VLMQMKAPNE C
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Seq ID NO: 612 DNA sequence
Nucleic Acid Accession #: XM_098151
Coding sequence: 1..447

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AGTGGGGTAC AGAGTTCAGT TTTCCTCTCT GTTTACAGCT CCTTGACAGT CCCACGCCCA   120
TCTGGAGTGG GAGCTGGGAG TCAGTGTTGG AGAAGAAACA ACAAAAGCCA ATTAGAACCA   180
CTATTTTTAA AAAGTGCTTA CTGTGCACAG ATACTCTTCA AGCACTGGAC GTGGATTCTC   240
TCTCTAGCCC TCAGCACCCC TGCGGTAGGA GTGCCGCCTC TACCCACTTG TGATGGGGTA   300
CAGAGGCACT TGCTCTTCTG CATGGTGTTC AATAGGCTGG GAGTTTTATT TATCTCTTCA   360
AACTTTGTAC AAGAGCTCAT GGCTTGTCTT GGGCTTTCGT CATTAAACCA AAGGAAATGG   420
AAGCCATTCC CCTGTTGCTC TCCTTAG
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Seq ID NO: 613 Protein sequence
Protein Accession #: XP_098151

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1           11          21          31          41          51
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MMHLLNSQGW NEPAGPPESW SGVQSSVFLS VYSSLTVPRP SGVGAGSQCW RRNNKSQLEP    60
LFLKSAYCAQ ILFKHWTWIL SLALSTPAVG VPPLPTCDGV QRHLLFCMVF NRLGVLFISS   120
NFVQELMACL GLSSLNQRKW KPFPCCSP
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Seq ID NO: 614 DNA sequence
Nucleic Acid Accession #: NM_002658.1
Coding sequence: 77..1372

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CCCCGACCTC GCCACCATGA GAGCCCTGCT GGCGCGCCTG CTTCTCTGCG TCCTGGTCGT   120
GAGCGACTCC AAAGGCAGCA ATGAACTTCA TCAAGTTCCA TCGAACTGTG ACTGTCTAAA   180
TGGAGGAACA TGTGTGTCCA ACAAGTACTT CTCCAACATT CACTGGTGCA ACTGCCCAAA   240
GAAATTCGGA GGGCAGCACT GTGAAATAGA TAAGTCAAAA ACCTGCTATG AGGGGAATGG   300
TCACTTTTAC CGAGGAAAGG CCAGCACTGA CACCATGGGC CGGCCCTGCC TGCCCTGGAA   360
CTCTGCCACT GTCCTTCAGC AAACGTACCA TGCCCACAGA TCTGATGCTC TTCAGCTGGG   420
CCTGGGGAAA CATAATTACT GCAGGAACCC AGACAACCGG AGGCGACCCT GGTGCTATGT   480
GCAGGTGGGC CTAAAGCCGC TTGTCCAAGA GTGCATGGTG CATGACTGCG CAGATGGAAA   540
AAAGCCCTCC TCTCCTCCAG AAGAATTAAA ATTTCAGTGT GGCCAAAAGA CTCTGAGGCC   600
CCGCTTTAAG ATTATTGGGG GAGAATTCAC CACCATCGAG AACCAGCCCT GGTTTGCGGC   660
CATCTACAGG AGGCACCGGG GGGGCTCTGT CACCTACGTG TGTGGAGGCA GCCTCATCAG   720
CCCTTGCTGG GTGATCAGCG CCACACACTG CTTCATTGAT TACCCAAAGA AGGAGGACTA   780
CATCGTCTAC CTGGGTCGCT CAAGGCTTAA CTCCAACACG CAAGGGGAGA TGAAGTTTGA   840
GGTGGAAAAC CTCATCCTAC ACAAGGACTA CAGCGCTGAC ACGCTTGCTC ACCACAACGA   900
CATTGCCTTG CTGAAGATCC GTTCCAAGGA GGGCAGGTGT GCGCAGCCAT CCCGGACTAT   960
ACAGACCATC TGCCTGCCCT CGATGTATAA CGATCCCCAG TTTGGCACAA GCTGTGAGAT  1020
CACTGGCTTT GGAAAAGAGA ATTCTACCGA CTATCTCTAT CCGGAGCAGC TGAAAATGAC  1080
TGTTGTGAAG CTGATTTCCC ACCGGGAGTG TCAGCAGCCC CACTACTACG GCTCTGAAGT  1140
CACCACCAAA ATGCTATGTG CTGCTGACCC CCAATGGAAA ACAGATTCCT GCCAGGGAGA  1200
CTCAGGGGGA CCCCTCGTCT GTTCCCTCCA AGGCCGCATG ACTTTGACTG GAATTGTGAG  1260
CTGGGGCCGT GGATGTGCCC TGAAGGACAA GCCAGGCGTC TACACGAGAG TCTCACACTT  1320
CTTACCCTGG ATCCGCAGTC ACACCAAGGA AGAGAATGGC CTGGCCCTCT GAGGGTCCCC  1380
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TCCATCAGCT GTAAGAAGAG ACTGGGAAGA TAGGCTCTGC ACAGATGGAT TTGCCTGTGG  1500
CACCACCAGG GTGAACGACA ATAGCTTTAC CCTCACGGAT AGGCCTGGGT GCTGGCTGCC  1560
CAGACCCTCT GGCCAGGATG GAGGGGTGGT CCTGACTCAA CATGTTACTG ACCAGCAACT  1620
TGTCTTTTTC TGGACTGAAG CCTGCAGGAG TTAAAAAGGG CAGGGCATCT CCTGTGCATG  1680
GGCTCGAAGG GAGAGCCAGC TCCCCCGACC GGTGGGCATT TGTGAGGCCC ATGGTTGAGA  1740
AATGAATAAT TTCCCAATTA GGAAGTGTAA GCAGCTGAGG TCTCTTGAGG GAGCTTAGCC  1800
AATGTGGGAG CAGCGGTTTG GGGAGCAGAG ACACTAACGA CTTCAGGGCA GGGCTCTGAT  1860
ATTCCATGAA TGTATCAGGA AATATATATG TGTGTGTATG TTTGCACACT TGTTGTGTGG  1920
GCTGTGAGTG TAAGTGTGAG TAAGAGCTGG TGTCTGATTG TTAAGTCTAA ATATTTCCTT  1980
AAACTGTGTG GACTGTGATG CCACACAGAG TGGTCTTTCT GGAGAGGTTA TAGGTCACTC  2040
CTGGGGCCTC TTGGGTCCCC CACGTGACAG TGCCTGGGAA TGTACTTATT CTGCAGCATG  2100
ACCTGTGACC AGCACTGTCT CAGTTTCACT TTCACATAGA TGTCCCTTTC TTGGCCAGTT  2160
ATCCCTTCCT TTTAGCCTAG TTCATCCAAT CCTCACTGGG TGGGGTGAGG ACCACTCCTT  2220
ACACTGAATA TTTATATTTC ACTATTTTTA TTTATATTTT TGTAATTTTA AATAAAAGTG  2280
ATCAATAAAA TGTGATTTTT CTGA
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Seq ID NO: 615 Protein sequence
Protein Accession #: NP_002649.1

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HCEIDKSKTC YEGNGHFYRG KASTDTMGRP CLPWNSATVL QQTYHAHRSD ALQLGLGKHN   120
YCRNPDNRRR PWCYVQVGLK PLVQECMVHD CADGKKPSSP PEELKFQCGQ KTLRPRFKII   180
GGEFTTIENQ PWFAAIYRRH RGGSVTYVCG GSLISPCWVI SATHCFIDYP KKEDYIVYLG   240
RSRLNSNTQG EMKFEVENLI LHKDYSADTL AHHNDIALLK IRSKEGRCAQ PSRTIQTICL   300
PSMYNDPQFG TSCEITGFGK ENSTDYLYPE QLKMTVVKLI SHRECQQPHY YGSEVTTKML   360
CAADPQWKTD SCQGDSGGPL VCSLQGRMTL TGIVSWGRGC ALKDKPGVYT RVSHFLPWIR   420
SHTKEENGLA L
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Seq ID NO: 616 DNA sequence
Nucleic Acid Accession #: NM_024422.1
Coding sequence: 202..2907

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GCTCCGGCCG CGGCCCTCGC CCCGCGGAGC CCTCCTACCC CGGCCCGACG CTCGGCCCGC   180
GACCTGCCCC GAGCCCTCTC CATGGAGGCA GCCCGCCCCT CCGGCTCCTG GAACGGAGCC   240
CTCTGCCGGC TGCTCCTGCT GACCCTCGCG ATCTTAATAT TTGCCAGTGA TGCCTGCAAA   300
AATGTGACAT TACATGTTCC CTCCAAACTA GATGCCGAGA AACTTGTTGG TAGAGTTAAC   360
CTGAAAGAGT GCTTTACAGC TGCAAATCTA ATTCATTCAA GTGATCCTGA CTTCCAAATT   420
TTGGAGGATG GTTCAGTCTA TACAACAAAT ACTATTCTAT TGTCCTCGGA GAAGAGAAGT   480
TTTACCATAT TACTTTCCAA CACTGAGAAC CAAGAAAAGA AGAAAATATT TGTCTTTTTG   540
GAGCATCAAA CAAAGGTCCT AAAGAAAAGA CATACTAAAG AAAAAGTTCT AAGGCGCGCC   600
AAGAGAAGAT GGGCTCCAAT TCCTTGTTCG ATGCTAGAAA ACTCCTTGGG TCCTTTTCCA   660
CTTTTCCTTC AACAGGTTCA ATCTGACACG GCCCAAAACT ATACCATATA CTATTCCATA   720
AGAGGTCCTG GAGTTGACCA AGAACCTCGG AATTTATTTT ATGTGGAGAG AGACACTGGA   780
AACTTGTATT GTACTCGTCC TGTAGATCGT GAGCAGTATG AATCTTTTGA GATAATTGCC   840
TTTGCAACAA CTCCAGATGG GTATACTCCA GAACTTCCAC TGCCCCTAAT AATCAAAATA   900
GAGGATGAAA ATGATAACTA CCCAATTTTT ACAGAAGAAA CTTATACTTT TACAATTTTT   960
GAAAATTGCA GAGTGGGCAC TACTGTGGGA CAAGTGTGTG CTACTGACAA AGATGAGCCT  1020
GACACGATGC ACACACGCCT GAAGTACTCC ATCATTGGGC AGGTGCCACC ATCACCCACC  1080
CTATTTTCTA TGCATCCAAC TACAGGCGTG ATCACCACAA CATCATCTCA GCTAGACAGA  1140
GAGTTAATTG ACAAGTACCA GTTGAAAATA AAAGTACAAG ACATGGATGG TCAGTATTTT  1200
GGTCTACAGA CAACTTCAAC TTGTATCATT AACATTGATG ATGTAAATGA CCACTTGCCA  1260
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ACCATTTTAA AGGGCAATGA AAATGGCAAT TTTAAAATTG TAACAGATGC CAAAACCAAT  1440
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CCAATACAGA CTGTTCGCAT GAAAGAAAAT GCAGAAGTGG GAACAACAAG CAATGGATAT  1680
AAAGCATATG ACCCAGAAAC AAGAAGTAGC AGTGGCATAA GGTATAAGAA ATTAACTGAT  1740
CCAACAGGGT GGGTCACCAT TGATGAAAAT ACAGGATCAA TCAAAGTTTT CAGAAGCCTG  1800
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AATTAAGTGT TCATGTGGTG CTTGGAAACT GTTGTTTTCC TGAACATCTA AAGTGTGTAG  3360
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TTTCTAGCCA GGCATTGACT ATTACAATTT CATT
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Seq ID NO: 617 Protein sequence
Protein Accession #: NP_077740.1

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ANLIHSSDPD FQILEDGSVY TTNTILLSSE KRSFTILLSN TENQEKKKIF VFLEHQTKVL   120
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KKRHTKEKVL RRAKRRWAPI PCSMLENSLG PFPLFLQQVQ SDTAQNYTIY YSIRGPGVDQ   180
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PIFTEETYTF TIFENCRVGT TVGQVCATDK DEPDTMHTRL KYSIIGQVPP SPTLFSMHPT   300
TGVITTTSSQ LDRELIDKYQ LKIKVQDMDG QYFGLQTTST CIINIDDVND HLPTFTRTSY   360
VTSVEENTVD VEILRVTVED KDLVNTANWR ANYTILKGNE NGNFKIVTDA KTNEGVLCVV   420
KPLNYEEKQQ MILQIGVVNE APFSREASPR SAMSTATVTV NVEDQDEGPE CNPPIQTVRM   480
KENAEVGTTS NGYKAYDPET RSSSGIRYKK LTDPTGWVTI DENTGSIKVF RSLDREAETI   540
KNGIYNITVL ASDQGGRTCT GTLGIILQDV NDNSPFIPKK TVIICKPTMS SAEIVAVDPD   600
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VTSLDVTLCD CITENDCTHR VDPRIGGGGV QLGKWAILAI LLGIALLFCI LFTLVCGASG   720
TSKQPKVIPD DLAQQNLIVS NTEAPGDDKV YSANGFTTQT VGASAQGVCG TVGSGIKNGG   780
QETIEMVKGG HQTSESCRGA GHHHTLDSCR GGHTEVDNCR YTYSEWHSFT QPRLGEKVYL   840
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Seq ID NO: 618 DNA sequence
Nucleic Acid Accession #: NM_004949.1
Coding sequence: 202..2745

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GACCTGCCCC GAGCCCTCTC CATGGAGGCA GCCCGCCCCT CCGGCTCCTG GAACGGAGCC   240
CTCTGCCGGC TGCTCCTGCT GACCCTCGCG ATCTTAATAT TTGCCAGTGA TGCCTGCAAA   300
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GAGCATCAAA CAAAGGTCCT AAAGAAAAGA CATACTAAAG AAAAAGTTCT AAGGCGCGCC   600
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AGAGGTCCTG GAGTTGACCA AGAACCTCGG AATTTATTTT ATGTGGAGAG AGACACTGGA   780
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TTTGCAACAA CTCCAGATGG GTATACTCCA GAACTTCCAC TGCCCCTAAT AATCAAAATA   900
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GAAAATTGCA GAGTGGGCAC TACTGTGGGA CAAGTGTGTG CTACTGACAA AGATGAGCCT  1020
GACACGATGC ACACACGCCT GAAGTACTCC ATCATTGGGC AGGTGCCACC ATCACCCACC  1080
CTATTTTCTA TGCATCCAAC TACAGGCGTG ATCACCACAA CATCATCTCA GCTAGACAGA  1140
GAGTTAATTG ACAAGTACCA GTTGAAAATA AAAGTACAAG ACATGGATGG TCAGTATTTT  1200
GGTCTACAGA CAACTTCAAC TTGTATCATT AACATTGATG ATGTAAATGA CCACTTGCCA  1260
ACATTTACTC GTACTTCTTA TGTGACATCA GTGGAAGAAA ATACAGTTGA TGTGGAAATC  1320
TTACGAGTTA CTGTTGAGGA TAAGGACTTA GTGAATACTG CTAACTGGAG AGCTAATTAT  1380
ACCATTTTAA AGGGCAATGA AAATGGCAAT TTTAAAATTG TAACAGATGC CAAAACCAAT  1440
GAAGGAGTTC TTTGTGTAGT TAAGCCTTTG AATTATGAAG AAAAGCAACA GATGATCTTG  1500
CAAATTGGTG TAGTTAATGA AGCTCCATTT TCCAGAGAGG CTAGTCCAAG ATCAGCCATG  1560
AGCACAGCAA CAGTTACTGT TAATGTAGAA GATCAGGATG AGGGCCCTGA GTGTAACCCT  1620
CCAATACAGA CTGTTCGCAT GAAAGAAAAT GCAGAAGTGG GAACAACAAG CAATGGATAT  1680
AAAGCATATG ACCCAGAAAC AAGAAGTAGC AGTGGCATAA GGTATAAGAA ATTAACTGAT  1740
CCAACAGGGT GGGTCACCAT TGATGAAAAT ACAGGATCAA TCAAAGTTTT CAGAAGCCTG  1800
GATAGAGAGG CAGAGACCAT CAAAAATGGC ATATATAATA TTACAGTCCT TGCATCAGAC  1860
CAAGGAGGGA GAACATGTAC GGGGACACTG GGCATTATAC TTCAAGACGT GAATGATAAC  1920
AGCCCATTCA TACCTAAAAA GACAGTGATC ATCTGCAAAC CCACCATGTC ATCTGCGGAG  1980
ATTGTTGCGG TTGATCCTGA TGAGCCTATC CATGGCCCAC CCTTTGACTT TAGTCTGGAG  2040
AGTTCTACTT CAGAAGTACA GAGAATGTGG AGACTGAAAG CAATTAATGA TACAGCAGCA  2100
CGTCTTTCCT ATCAGAATGA TCCTCCATTT GGCTCATATG TAGTACCTAT AACAGTGAGA  2160
GATAGACTTG GCATGTCTAG TGTCACTTCA TTGGATGTTA CACTGTGTGA CTGCATTACC  2220
GAAAATGACT GCACACATCG TGTAGATCCA AGGATTGGCG GTGGAGGAGT ACAACTTGGA  2280
AAGTGGGCCA TCCTTGCAAT ATTGTTGGGC ATAGCATTGC TCTTTTGCAT CCTGTTTACG  2340
CTGGTCTGTG GGGCTTCTGG GACGTCTAAA CAACCAAAAG TAATTCCTGA TGATTTAGCC  2400
CAGCAGAACC TAATTGTATC AAACACAGAA GCTCCTGGAG ATGACAAAGT GTATTCTGCG  2460
AATGGCTTCA CAACCCAAAC TGTGGGCGCT TCTGCTCAGG GAGTTTGTGG CACCGTGGGA  2520
TCAGGAATCA AAAACGGAGG TCAGGAGACC ATCGAAATGG TGAAAGGAGG ACACCAGACC  2580
TCGGAATCCT GCCGGGGGGC TGGCCACCAT CACACCCTGG ACTCCTGCAG GGGAGGACAC  2640
ACGGAGGTGG ACAACTGCAG ATACACTTAC TCGGAGTGGC ACAGTTTTAC TCAGCCCCGT  2700
CTTGGTGAAG AATCCATTAG AGGACACACT CTGATTAAAA ATTAAACAAT GAAAGAAAGT  2760
GTATCTGTGT AATCAAGATG AAAATCACAA GCATGCCCAA GACTATGTCC TGACATATAA  2820
CTATGAAGGA AGAGGATCGG TGGCTGGGTC TGTAGGTTGT TGCAGTGAAC GACAAGAAGA  2880
AGATGGGCTT GAATTTTTGG ATAATTTGGA GCCCAAATTT AGGACACTAG CAGAAGCATG  2940
CATGAAGAGA TGAGTGTGTT CTAATAAGTC TCTGAAAGCC AGTGGCTTTA TGACTTTTAA  3000
AAAAAATTAC AAACCAAGAA TTTTTTAAAG CAGAAGATGC TATTTGTGGG GGTTTTTCTC  3060
TCATTATTTG GATGGAATCT CTTTGGTCAA ATGCACATTT ACAGAGAGAC ACTATAAACA  3120
AGTACACAAA TTTTTCAATT TTTACATATT TTTAAATTAC TTATCTTCTA TCCAAGGAGG  3180
TCTACAGAGA AATTAAAGTC TGCCTTATTT GTTACATTTG GGTATAATGA CAACAGCCAA  3240
TTTATAGTGC AATAAAATGT AATTAATTCA AGTCCTTATT ATAGACTATT TGAAGCACAA  3300
CCTAATGGAA AATTGTAGAG ACCTTGCTTT AACATTATCT CCAGTTAATT AAGTGTTCAT  3360
GTGGTGCTTG GAAACTGTTG TTTTCCTGAA CATCTAAAGT GTGTAGACTG CATTCTTGCT  3420
ATTATTTTAT TCTTGTAATG TGACCTTTTC ACTGTGCAAA GGGAGATTTC TAGCCAGGCA  3480
TTGACTATTA CAATTTCATT
```

Seq ID NO: 619 Protein sequence
Protein Accession #: NP_004940.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MEAARPSGSW NGALCRLLLL TLAILIFASD ACKNVTLHVP SKLDAEKLVG RVNLKECFTA    60
```

```
ANLIHSSDPD FQILEDGSVY TTNTILLSSE KRSFTILLSN TENQEKKKIF VFLEHQTKVL   120
KKRHTKEKVL RRAKRRWAPI PCSMLENSLG PFPLFLQQVQ SDTAQNYTIY YSIRGPGVDQ   180
EPRNLFYVER DTGNLYCTRP VDREQYESFE IIAFATTPDG YTPELPLPLI IKIEDENDNY   240
PIFTEETYTF TIFENCRVGT TVGQVCATDK DEPDTMHTRL KYSIIGQVPP SPTLFSMHPT   300
TGVITTTSSQ LDRELIDKYQ LKIKVQDMDG QYFGLQTTST CIINIDDVND HLPTFTRTSY   360
VTSVEENTVD VEILRVTVED KDLVNTANWR ANYTILKGNE NGNFKIVTDA KTNEGVLCVV   420
KPLNYEEKQQ MILQIGVVNE APFSREASPR SAMSTATVTV NVEDQDEGPE CNPPIQTVRM   480
KENAEVGTTS NGYKAYDPET RSSSGIRYKK LTDPTGWVTI DENTGSIKVF RSLDREAETI   540
KNGIYNITVL ASDQGGRTCT GTLGIILQDV NDNSPFIPKK TVIICKPTMS SAEIVAVDPD   600
EPIHGPPFDF SLESSTSEVQ RMWRLKAIND TAARLSYQND PPFGSYVVPI TVRDRLGMSS   660
VTSLDVTLCD CITENDCTHR VDPRIGGGGV QLGKWAILAI LLGIALLFCI LFTLVCGASG   720
TSKQPKVIPD DLAQQNLIVS NTEAPGDDKV YSANGFTTQT VGASAQGVCG TVGSGIKNGG   780
QETIEMVKGG HQTSESCRGA GHHHTLDSCR GGHTEVDNCR YTYSEWHSFT QPRLGEESIR   840
GHTLIKN
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Seq ID NO: 620 DNA sequence
Nucleic Acid Accession #: NM_032545.1
Coding sequence: 46..718

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1           11          21          31          41          51
|           |           |           |           |           |
AAACTGATCT TCAATGCACT AAGAGAAGGA GACTCTCAAA CCAAAAATGA CCTGGAGGCA    60
CCATGTCAGG CTTCTGTTTA CGGTCAGTTT GGCATTACAG ATCATCAATT TGGGAAACAG   120
CTATCAAAGA GAGAAACATA ACGGCGGTAG AGAGGAAGTC ACCAAGGTTG CCACTCAGAA   180
GCACCGACAG TCACCGCTCA ACTGGACCTC CAGTCATTTC GGAGAGGTGA CTGGGAGCGC   240
CGAGGGCTGG GGGCCGGAGG AGCCGCTCCC CTACTCCCGG GCTTTCGGAG AGGGTGCGTC   300
CGCGCGGCCG CGCTGCTGCA GGAACGGCGG TACCTGCGTG CTGGGCAGCT TCTGCGTGTG   360
CCCGGCCCAC TTCACCGGCC GCTACTGCGA GCATGACCAG AGGCGCAGTG AATGCGGCGC   420
CCTGGAGCAC GGAGCCTGGA CCCTCCGCGC CTGCCACCTC TGCAGGTGCA TCTTCGGGGC   480
CCTGCACTGC CTCCCCCTCC AGACGCCTGA CCGCTGTGAC CCGAAAGACT TCCTGGCCTC   540
CCACGCTCAC GGGCCGAGCG CCGGGGGCGC GCCCAGCCTG CTACTCTTGC TGCCCTGCGC   600
ACTCCTGCAC CGCCTCCTGC GCCCGGATGC GCCCGCGCAC CCTCGGTCCC TGGTCCCTTC   660
CGTCCTCCAG CGGGAGCGGC GCCCCTGCGG AAGGCCGGGA CTTGGGCATC GCCTTTAATT   720
TTCTATGTTG TAAATAATAG ATGTGTTTAG TTTACCGTAA GCTGAAGCAC TGGGTGAATA   780
TTTTTATTGG GTAATAAATA TTTTCATGAA AGCGCCAAAA AAAAAAAAAA AAAAAAAAAA   840
AAAAAA
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Seq ID NO: 621 Protein sequence
Protein Accession #: NP_115934.1

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1           11          21          31          41          51
|           |           |           |           |           |
MTWRHHVRLL FTVSLALQII NLGNSYQREK HNGGREEVTK VATQKHRQSP LNWTSSHFGE    60
VTGSAEGWGP EEPLPYSRAF GEGASARPRC CRNGGTCVLG SFCVCPAHFT GRYCEHDQRR   120
SECGALEHGA WTLRACHLCR CIFGALHCLP LQTPDRCDPK DFLASHAHGP SAGGAPSLLL   180
LLPCALLHRL LRPDAPAHPR SLVPSVLQRE RRPCGRPGLG HRL
```

Seq ID NO: 622 DNA sequence
Nucleic Acid Accession #: FGENESH predicted
Coding sequence: 1..390

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGAGGTTCA GTGTCTCAGG CATGAGGACC GACTACCCCA GGAGTGTGCT GGCTCCTGCT    60
TATGTGTCAG TCTGTCTCCT CCTCTTGTGT CCAAGGGAAG TCATCGCTCC CGCTGGCTCA   120
GAACCATGGC TGTGCCAGCC GGCACCCAGG TGTGGAGACA AGATCTACAA CCCCTTGGAG   180
CAGTGCTGTT ACAATGACGC CATCGTGTCC CTGAGCGAGA CCCGCCAATG TGGTCCCCCC   240
TGCACCTTCT GGCCCTGCTT TGAGCTCTGC TGTCTTGATT CCTTTGGCCT CACAAACGAT   300
TTTGTTGTGA AGCTGAAGGT TCAGGGTGTG AATTCCCAGT GCCACTCATC TCCCATCTCC   360
AGTAAATGTG AAAGAGGCCG GATATGTTAG
```

Seq ID NO: 623 Protein sequence
Protein Accession #: FGENESH predicted

```
1           11          21          31          41          51
|           |           |           |           |           |
MRFSVSGMRT DYPRSVLAPA YVSVCLLLLC PREVIAPAGS EPWLCQPAPR CGDKIYNPLE    60
QCCYNDAIVS LSETRQCGPP CTFWPCFELC CLDSFGLTND FVVKLKVQGV NSQCHSSPIS   120
SKCERGRIC
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Seq ID NO: 624 DNA sequence
Nucleic Acid Accession #: M18728.1
Coding sequence: 51..1085

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1           11          21          31          41          51
|           |           |           |           |           |
GGAGCTCAAG CTCCTCTACA AAGAGGTGGA CAGAGAAGAC AGCAGAGACC ATGGGACCCC    60
CCTCAGCCCC TCCCTGCAGA TTGCATGTCC CCTGGAAGGA GGTCCTGCTC ACAGCCTCAC   120
TTCTAACCTT CTGGAACCCA CCCACCACTG CCAAGCTCAC TATTGAATCC ACGCCATTCA   180
ATGTCGCAGA GGGGAAGGAG GTTCTTCTAC TCGCCCACAA CCTGCCCCAG AATCGTATTG   240
GTTACAGCTG GTACAAAGGC GAAAGAGTGG ATGGCAACAG TCTAATTGTA GGATATGTAA   300
TAGGAACTCA ACAAGCTACC CCAGGGCCCG CATACAGTGG TCGAGAGACA ATATACCCCA   360
ATGCATCCCT GCTGATCCAG AACGTCACCC AGAATGACAC AGGATTCTAT ACCCTACAAG   420
TCATAAAGTC AGATCTTGTG AATGAAGAAG CAACCGGACA GTTCCATGTA TACCCGGAGC   480
TGCCCAAGCC CTCCATCTCC AGCAACAACT CCAACCCCGT GGAGGACAAG GATGCTGTGG   540
CCTTCACCTG TGAACCTGAG GTTCAGAACA CAACCTACCT GTGGTGGGTA AATGGTCAGA   600
GCCTCCCGGT CAGTCCCAGG CTGCAGCTGT CCAATGGCAA CATGACCCTC ACTCTACTCA   660
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GCGTCAAAAG GAACGATGCA GGATCCTATG AATGTGAAAT ACAGAACCCA GCGAGTGCCA 720
ACCGCAGTGA CCCAGTCACC CTGAATGTCC TCTATGGCCC AGATGTCCCC ACCATTTCCC 780
CCTCAAAGGC CAATTACCGT CCAGGGGAAA ATCTGAACCT CTCCTGCCAC GCAGCCTCTA 840
ACCCACCTGC ACAGTACTCT TGGTTTATCA ATGGGACGTT CCAGCAATCC ACACAAGAGC 900
TCTTTATCCC CAACATCACT GTGAATAATA GCGGATCCTA TATGTGCCAA GCCCATAACT 960
CAGCCACTGG CCTCAATAGG ACCACAGTCA CGATGATCAC AGTCTCTGGA AGTGCTCCTG 1020
TCCTCTCAGC TGTGGCCACC GTCGGCATCA CGATTGGAGT GCTGGCCAGG GTGGCTCTGA 1080
TATAGCAGCC CTGGTGTATT TTCGATATTT CAGGAAGACT GGCAGATTGG ACCAGACCCT 1140
GAATTCTTCT AGCTCCTCCA ATCCCATTTT ATCCCATGGA ACCACTAAAA ACAAGGTCTG 1200
CTCTGCTCCT GAAGCCCTAT ATGCTGGAGA TGGACAACTC AATGAAAATT TAAAGGGAAA 1260
ACCCTCAGGC CTGAGGTGTG TGCCACTCAG AGACTTCACC TAACTAGAGA CAGTCAAACT 1320
GCAAACCATG GTGAGAAATT GACGACTTCA CACTATGGAC AGCTTTTCCC AAGATGTCAA 1380
AACAAGACTC CTCATCATGA TAAGGCTCTT ACCCCCTTTT AATTTGTCCT TGCTTATGCC 1440
TGCCTCTTTC GCTTGGCAGG ATGATGCTGT CATTAGTATT TCACAAGAAG TAGCTTCAGA 1500
GGGTAACTTA ACAGAGTGTC AGATCTATCT TGTCAATCCC AACGTTTTAC ATAAAATAAG 1560
AGATCCTTTA GTGCACCCAG TGACTGACAT TAGCAGCATC TTTAACACAG CCGTGTGTTC 1620
AAATGTACAG TGGTCCTTTT CAGAGTTGGA CTTCTAGACT CACCTGTTCT CACTCCCTGT 1680
TTTAATTCAA CCCAGCCATG CAATGCCAAA TAATAGAATT GCTCCCTACC AGCTGAACAG 1740
GGAGGAGTCT GTGCAGTTTC TGACACTTGT TGTTGAACAT GGCTAAATAC AATGGGTATC 1800
GCTGAGACTA AGTTGTAGAA ATTAACAAAT GTGCTGCTTG GTTAAAATGG CTACACTCAT 1860
CTGACTCATT CTTTATTCTA TTTTAGTTGG TTTGTATCTT GCCTAAGGTG CGTAGTCCAA 1920
CTCTTGGTAT TACCCTCCTA ATAGTCATAC TAGTAGTCAT ACTCCCTGGT GTAGTGTATT 1980
CTCTAAAAGC TTTAAATGTC TGCATGCAGC CAGCCATCAA ATAGTGAATG GTCTCTCTTT 2040
GGCTGGAATT ACAAAACTCA GAGAAATGTG TCATCAGGAG AACATCATAA CCCATGAAGG 2100
ATAAAAGCCC CAAATGGTGG TAACTGATAA TAGCACTAAT GCTTTAAGAT TTGGTCACAC 2160
TCTCACCTAG GTGAGCGCAT TGAGCCAGTG GTGCTAAATG CTACATACTC CAACTGAAAT 2220
GTTAAGGAAG AAGATAGATC CAATTAAAAA AAATTAAAAC CAATTTAAAA AAAAAAAAGA 2280
ACACAGGAGA TTCCAGTCTA CTTGAGTTAG CATAATACAG AAGTCCCCTC TACTTTAACT 2340
TTTACAAAAA AGTAACCTGA ACTAATCTGA TGTTAACCAA TGTATTTATT TCTGTGGTTC 2400
TGTTTCCTTG TTCCAATTTG ACAAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG 2460
CTATCACTGT ACTTGTAGAG TGGTGCTGCT TTAATTCATA AATCACAAAT AAAAGCCAAT 2520
TAGCTCTATA ACT

Seq ID NO: 625 Protein sequence
Protein Accession #: AAA59907.1

1 11 21 31 41 51

MGPPSAPPCR LHVPWKEVLL TASLLTFWNP PTTAKLTIES TPFNVAEGKE VLLLAHNLPQ 60
NRIGYSWYKG ERVDGNSLIV GYVIGTQQAT PGPAYSGRET IYPNASLLIQ NVTQNDTGFY 120
TLQVIKSDLV NEEATGQFHV YPELPKPSIS SNNSNPVEDK DAVAFTCEPE VQNTTYLWWV 180
NGQSLPVSPR LQLSNGNMTL TLLSVKRNDA GSYECEIQNP ASANRSDPVT LNVLYGPDVP 240
TISPSKANYR PGENLNLSCH AASNPPAQYS WFINGTFQQS TQELFIPNIT VNNSGSYMCQ 300
AHNSATGLNR TTVTMITVSG SAPVLSAVAT VGITIGVLAR VALI

Seq ID NO: 626 DNA sequence
Nucleic Acid Accession #: M18728.1
Coding sequence: 1355..1657

1 11 21 31 41 51

GGAGCTCAAG CTCCTCTACA AAGAGGTGGA CAGAGAAGAC AGCAGAGACC ATGGGACCCC 60
CCTCAGCCCC TCCCTGCAGA TTGCATGTCC CCTGGAAGGA GGTCCTGCTC ACAGCCTCAC 120
TTCTAACCTT CTGGAACCCA CCCACCACTG CCAAGCTCAC TATTGAATCC ACGCCATTCA 180
ATGTCGCAGA GGGGAAGGAG GTTCTTCTAC TCGCCCACAA CCTGCCCCAG AATCGTATTG 240
GTTACAGCTG GTACAAAGGC GAAAGAGTGG ATGGCAACAG TCTAATTGTA GGATATGTAA 300
TAGGAACTCA ACAAGCTACC CCAGGGCCCG CATACAGTGG TCGAGAGACA ATATACCCCA 360
ATGCATCCCT GCTGATCCAG AACGTCACCC AGAATGACAC AGGATTCTAT ACCCTACAAG 420
TCATAAAGTC AGATCTTGTG AATGAAGAAG CAACCGGACA GTTCCATGTA TACCCGGAGC 480
TGCCCAAGCC CTCCATCTCC AGCAACAACT CCAACCCCGT GGAGGACAAG GATGCTGTGG 540
CCTTCACCTG TGAACCTGAG GTTCAGAACA CAACCTACCT GTGGTGGGTA AATGGTCAGA 600
GCCTCCCGGT CAGTCCCAGG CTGCAGCTGT CCAATGGCAA CATGACCCTC ACTCTACTCA 660
GCGTCAAAAG GAACGATGCA GGATCCTATG AATGTGAAAT ACAGAACCCA GCGAGTGCCA 720
ACCGCAGTGA CCCAGTCACC CTGAATGTCC TCTATGGCCC AGATGTCCCC ACCATTTCCC 780
CCTCAAAGGC CAATTACCGT CCAGGGGAAA ATCTGAACCT CTCCTGCCAC GCAGCCTCTA 840
ACCCACCTGC ACAGTACTCT TGGTTTATCA ATGGGACGTT CCAGCAATCC ACACAAGAGC 900
TCTTTATCCC CAACATCACT GTGAATAATA GCGGATCCTA TATGTGCCAA GCCCATAACT 960
CAGCCACTGG CCTCAATAGG ACCACAGTCA CGATGATCAC AGTCTCTGGA AGTGCTCCTG 1020
TCCTCTCAGC TGTGGCCACC GTCGGCATCA CGATTGGAGT GCTGGCCAGG GTGGCTCTGA 1080
TATAGCAGCC CTGGTGTATT TTCGATATTT CAGGAAGACT GGCAGATTGG ACCAGACCCT 1140
GAATTCTTCT AGCTCCTCCA ATCCCATTTT ATCCCATGGA ACCACTAAAA ACAAGGTCTG 1200
CTCTGCTCCT GAAGCCCTAT ATGCTGGAGA TGGACAACTC AATGAAAATT TAAAGGGAAA 1260
ACCCTCAGGC CTGAGGTGTG TGCCACTCAG AGACTTCACC TAACTAGAGA CAGTCAAACT 1320
GCAAACCATG GTGAGAAATT GACGACTTCA CACTATGGAC AGCTTTTCCC AAGATGTCAA 1380
AACAAGACTC CTCATCATGA TAAGGCTCTT ACCCCCTTTT AATTTGTCCT TGCTTATGCC 1440
TGCCTCTTTC GCTTGGCAGG ATGATGCTGT CATTAGTATT TCACAAGAAG TAGCTTCAGA 1500
GGGTAACTTA ACAGAGTGTC AGATCTATCT TGTCAATCCC AACGTTTTAC ATAAAATAAG 1560
AGATCCTTTA GTGCACCCAG TGACTGACAT TAGCAGCATC TTTAACACAG CCGTGTGTTC 1620
AAATGTACAG TGGTCCTTTT CAGAGTTGGA CTTCTAGACT CACCTGTTCT CACTCCCTGT 1680
TTTAATTCAA CCCAGCCATG CAATGCCAAA TAATAGAATT GCTCCCTACC AGCTGAACAG 1740
GGAGGAGTCT GTGCAGTTTC TGACACTTGT TGTTGAACAT GGCTAAATAC AATGGGTATC 1800
GCTGAGACTA AGTTGTAGAA ATTAACAAAT GTGCTGCTTG GTTAAAATGG CTACACTCAT 1860
CTGACTCATT CTTTATTCTA TTTTAGTTGG TTTGTATCTT GCCTAAGGTG CGTAGTCCAA 1920
CTCTTGGTAT TACCCTCCTA ATAGTCATAC TAGTAGTCAT ACTCCCTGGT GTAGTGTATT 1980
CTCTAAAAGC TTTAAATGTC TGCATGCAGC CAGCCATCAA ATAGTGAATG GTCTCTCTTT 2040
GGCTGGAATT ACAAAACTCA GAGAAATGTG TCATCAGGAG AACATCATAA CCCATGAAGG 2100
ATAAAAGCCC CAAATGGTGG TAACTGATAA TAGCACTAAT GCTTTAAGAT TTGGTCACAC 2160

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TCTCACCTAG GTGAGCGCAT TGAGCCAGTG GTGCTAAATG CTACATACTC CAACTGAAAT  2220
GTTAAGGAAG AAGATAGATC CAATTAAAAA AAATTAAAAC CAATTTAAAA AAAAAAAAGA  2280
ACACAGGAGA TTCCAGTCTA CTTGAGTTAG CATAATACAG AAGTCCCCTC TACTTTAACT  2340
TTTACAAAAA AGTAACCTGA ACTAATCTGA TGTTAACCAA TGTATTTATT TCTGTGGTTC  2400
TGTTTCCTTG TTCCAATTTG ACAAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG  2460
CTATCACTGT ACTTGTAGAG TGGTGCTGCT TTAATTCATA AATCACAAAT AAAAGCCAAT  2520
TAGCTCTATA ACT
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Seq ID NO: 627 Protein sequence
Protein Accession #: AAA59908.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MDSFSQDVKT RLLIMIRLLP PFNLSLLMPA SFAWQDDAVI SISQEVASEG NLTECQIYLV    60
NPNVLHKIRD PLVHPVTDIS SIFNTAVCSN VQWSFSELDF
```

Seq ID NO: 628 DNA sequence
Nucleic Acid Accession #: M18728.1
Coding sequence: 2370..2501

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1           11          21          31          41          51
|           |           |           |           |           |
GGAGCTCAAG CTCCTCTACA AAGAGGTGGA CAGAGAAGAC AGCAGAGACC ATGGGACCCC    60
CCTCAGCCCC TCCCTGCAGA TTGCATGTCC CCTGGAAGGA GGTCCTGCTC ACAGCCTCAC   120
TTCTAACCTT CTGGAACCCA CCCACCACTG CCAAGCTCAC TATTGAATCC ACGCCATTCA   180
ATGTCGCAGA GGGGAAGGAG GTTCTTCTAC TCGCCCACAA CCTGCCCCAG AATCGTATTG   240
GTTACAGCTG GTACAAAGGC GAAAGAGTGG ATGGCAACAG TCTAATTGTA GGATATGTAA   300
TAGGAACTCA ACAAGCTACC CCAGGGCCCG CATACAGTGG TCGAGAGACA ATATACCCCA   360
ATGCATCCCT GCTGATCCAG AACGTCACCC AGAATGACAC AGGATTCTAT ACCCTACAAG   420
TCATAAAGTC AGATCTTGTG AATGAAGAAG CAACCGGACA GTTCCATGTA TACCCGGAGC   480
TGCCCAAGCC CTCCATCTCC AGCAACAACT CCAACCCCGT GGAGGACAAG GATGCTGTGG   540
CCTTCACCTG TGAACCTGAG GTTCAGAACA CAACCTACCT GTGGTGGGTA AATGGTCAGA   600
GCCTCCCGGT CAGTCCCAGG CTGCAGCTGT CCAATGGCAA CATGACCCTC ACTCTACTCA   660
GCGTCAAAAG GAACGATGCA GGATCCTATG AATGTGAAAT ACAGAACCCA GCGAGTGCCA   720
ACCGCAGTGA CCCAGTCACC CTGAATGTCC TCTATGGCCC AGATGTCCCC ACCATTTCCC   780
CCTCAAAGGC CAATTACCGT CCAGGGGAAA ATCTGAACCT CTCCTGCCAC GCAGCCTCTA   840
ACCCACCTGC ACAGTACTCT TGGTTTATCA ATGGGACGTT CCAGCAATCC ACACAAGAGC   900
TCTTTATCCC CAACATCACT GTGAATAATA GCGGATCCTA TATGTGCCAA GCCCATAACT   960
CAGCCACTGG CCTCAATAGG ACCACAGTCA CGATGATCAC AGTCTCTGGA AGTGCTCCTG  1020
TCCTCTCAGC TGTGGCCACC GTCGGCATCA CGATTGGAGT GCTGGCCAGG GTGGCTCTGA  1080
TATAGCAGCC CTGGTGTATT TTCGATATTT CAGGAAGACT GGCAGATTGG ACCAGACCCT  1140
GAATTCTTCT AGCTCCTCCA ATCCCATTTT ATCCCATGGA ACCACTAAAA ACAAGGTCTG  1200
CTCTGCTCCT GAAGCCCTAT ATGCTGGAGA TGGACAACTC AATGAAAATT TAAAGGGAAA  1260
ACCCTCAGGC CTGAGGTGTG TGCCACTCAG AGACTTCACC TAACTAGAGA CAGTCAAACT  1320
GCAAACCATG GTGAGAAATT GACGACTTCA CACTATGGAC AGCTTTTCCC AAGATGTCAA  1380
AACAAGACTC CTCATCATGA TAAGGCTCTT ACCCCCTTTT AATTTGTCCT TGCTTATGCC  1440
TGCCTCTTTC GCTTGGCAGG ATGATGCTGT CATTAGTATT TCACAAGAAG TAGCTTCAGA  1500
GGGTAACTTA ACAGAGTGTC AGATCTATCT TGTCAATCCC AACGTTTTAC ATAAAATAAG  1560
AGATCCTTTA GTGCACCCAG TGACTGACAT TAGCAGCATC TTTAACACAG CCGTGTGTTC  1620
AAATGTACAG TGGTCCTTTT CAGAGTTGGA CTTCTAGACT CACCTGTTCT CACTCCCTGT  1680
TTTAATTCAA CCCAGCCATG CAATGCCAAA TAATAGAATT GCTCCCTACC AGCTGAACAG  1740
GGAGGAGTCT GTGCAGTTTC TGACACTTGT TGTTGAACAT GGCTAAATAC AATGGGTATC  1800
GCTGAGACTA AGTTGTAGAA ATTAACAAAT GTGCTGCTTG GTTAAAATGG CTACACTCAT  1860
CTGACTCATT CTTTATTCTA TTTTAGTTGG TTTGTATCTT GCCTAAGGTG CGTAGTCCAA  1920
CTCTTGGTAT TACCCTCCTA ATAGTCATAC TAGTAGTCAT ACTCCCTGGT GTAGTGTATT  1980
CTCTAAAAGC TTTAAATGTC TGCATGCAGC CAGCCATCAA ATAGTGAATG GTCTCTCTTT  2040
GGCTGGAATT ACAAAACTCA GAGAAATGTG TCATCAGGAG AACATCATAA CCCATGAAGG  2100
ATAAAAGCCC CAAATGGTGG TAACTGATAA TAGCACTAAT GCTTTAAGAT TTGGTCACAC  2160
TCTCACCTAG GTGAGCGCAT TGAGCCAGTG GTGCTAAATG CTACATACTC CAACTGAAAT  2220
GTTAAGGAAG AAGATAGATC CAATTAAAAA AAATTAAAAC CAATTTAAAA AAAAAAAAGA  2280
ACACAGGAGA TTCCAGTCTA CTTGAGTTAG CATAATACAG AAGTCCCCTC TACTTTAACT  2340
TTTACAAAAA AGTAACCTGA ACTAATCTGA TGTTAACCAA TGTATTTATT TCTGTGGTTC  2400
TGTTTCCTTG TTCCAATTTG ACAAAACCCA CTGTTCTTGT ATTGTATTGC CCAGGGGGAG  2460
CTATCACTGT ACTTGTAGAG TGGTGCTGCT TTAATTCATA AATCACAAAT AAAAGCCAAT  2520
TAGCTCTATA ACT
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Seq ID NO: 629 Protein sequence
Protein Accession #: AAA59909.1

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1           11          21          31          41          51
|           |           |           |           |           |
MLTNVFISVV LFPCSNLTKP TVLVLYCPGG AITVLVEWCC FNS
```

Seq ID NO: 630 DNA sequence
Nucleic Acid Accession #: NM_016639.1
Coding sequence: 40..429

```
1           11          21          31          41          51
|           |           |           |           |           |
GCGGCGGGCG CAGACAGCGG CGGGCGCAGG ACGTGCACTA TGGCTCGGGG CTCGCTGCGC    60
CGGTTGCTGC GGCTCCTCGT GCTGGGGCTC TGGCTGGCGT TGCTGCGCTC CGTGGCCGGG   120
GAGCAAGCGC CAGGCACCGC CCCCTGCTCC CGCGGCAGCT CCTGGAGCGC GGACCTGGAC   180
AAGTGCATGG ACTGCGCGTC TTGCAGGGCG CGACCGCACA GCGACTTCTG CCTGGGCTGC   240
GCTGCAGCAC CTCCTGCCCC CTTCCGGCTG CTTTGGCCCA TCCTTGGGGG CGCTCTGAGC   300
CTGACCTTCG TGCTGGGGCT GCTTTCTGGC TTTTTGGTCT GGAGACGATG CCGCAGGAGA   360
GAGAAGTTCA CCACCCCCAT AGAGGAGACC GGCGGAGAGG GCTGCCCAGC TGTGGCGCTG   420
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ATCCAGTGAC AATGTGCCCC CTGCCAGCCG GGGCTCGCCC ACTCATCATT CATTCATCCA   480
TTCTAGAGCC AGTCTCTGCC TCCCAGACGC GGCGGGAGCC AAGCTCCTCC AACCACAAGG   540
GGGGTGGGGG GCGGTGAATC ACCTCTGAGG CCTGGGCCCA GGGTTCAGGG GAACCTTCCA   600
AGGTGTCTGG TTGCCCTGCC TCTGGCTCCA GAACAGAAAG GGAGCCTCAC GCTGGCTCAC   660
ACAAAACAGC TGACACTGAC TAAGGAACTG CAGCATTTGC ACAGGGGAGG GGGGTGCCCT   720
CCTTCCTTAG GACCTGGGGG CCAGGCTGAC TTGGGGGGCA GACTTGACAC TAGGCCCCAC   780
TCACTCAGAT GTCCTGAAAT TCCACCACGG GGGTCACCCT GGGGGGTTAG GGACCTATTT   840
TTAACACTAG GGGCTGGCCC ACTAGGAGGG CTGGCCCTAA GATACAGACC CCCCCAACTC   900
CCCAAAGCGG GGAGGAGATA TTTATTTTGG GGAGAGTTTG GAGGGGAGGG AGAATTTATT   960
AATAAAAGAA TCTTTAACTT TAAAAAAAAA AAAAAAAA

Seq ID NO:  631 Protein sequence
Protein Accession #: NP_057723.1

1           11          21          31          41          51
|           |           |           |           |           |
MARGSLRRLL RLLVLGLWLA LLRSVAGEQA PGTAPCSRGS SWSADLDKCM DCASCRARPH    60
SDFCLGCAAA PPAPFRLLWP ILGGALSLTF VLGLLSGFLV WRRCRRREKF TTPIEETGGE   120
GCPAVALIQ

Seq ID NO:  632 DNA sequence
Nucleic Acid Accession #: NM_003816.1
Coding sequence: 79..2538

1           11          21          31          41          51
|           |           |           |           |           |
CGGCAGGGTT GGAAAATGAT GGAAGAGGCG GAGGTGGAGG CGACCGAGTG CTGAGAGGAA    60
CCTGCGGAAT CGGCCGAGAT GGGGTCTGGC GCGCGCTTTC CCTCGGGGAC CCTTCGTGTC   120
CGGTGGTTGC TGTTGCTTGG CCTGGTGGGC CCAGTCCTCG GTGCGGCGCG GCCAGGCTTT   180
CAACAGACCT CACATCTTTC TTCTTATGAA ATTATAACTC CTTGGAGATT AACTAGAGAA   240
AGAAGAGAAG CCCCTAGGCC CTATTCAAAA CAAGTATCTT ATGTTATTCA GGCTGAAGGA   300
AAAGAGCATA TTATTCACTT GGAAAGGAAC AAAGACCTTT TGCCTGAAGA TTTTGTGGTT   360
TATACTTACA ACAAGGAAGG GACTTTAATC ACTGACCATC CCAATATACA GAATCATTGT   420
CATTATCGGG GCTATGTGGA GGGAGTTCAT AATTCATCCA TTGCTCTTAG CGACTGTTTT   480
GGACTCAGAG GATTGCTGCA TTTAGAGAAT GCGAGTTATG GGATTGAACC CCTGCAGAAC   540
AGCTCTCATT TTGAGCACAT CATTTATCGA ATGGATGATG TCTACAAAGA GCCTCTGAAA   600
TGTGGAGTTT CCAACAAGGA TATAGAGAAA GAAACTGCAA AGGATGAAGA GGAAGAGCCT   660
CCCAGCATGA CTCAGCTACT TCGAAGAAGA AGAGCTGTCT TGCCACAGAC CCGGTATGTG   720
GAGCTGTTCA TTGTCGTAGA CAAGGAAAGG TATGACATGA TGGGAAGAAA TCAGACTGCT   780
GTGAGAGAAG AGATGATTCT CCTGGCAAAC TACTTGGATA GTATGTATAT TATGTTAAAT   840
ATTCGAATTG TGCTAGTTGG ACTGGAGATT TGGACCAATG GAAACCTGAT CAACATAGTT   900
GGGGGTGCTG GTGATGTGCT GGGGAACTTC GTGCAGTGGC GGGAAAAGTT TCTTATCACA   960
CGTCGGAGAC ATGACAGTGC ACAGCTAGTT CTAAAGAAAG GTTTTGGTGG AACTGCAGGA  1020
ATGGCATTTG TGGGAACAGT GTGTTCAAGG AGCCACGCAG GCGGGATTAA TGTGTTTGGA  1080
CAAATCACTG TGGAGACATT TGCTTCCATT GTTGCTCATG AATTGGGTCA TAATCTTGGA  1140
ATGAATCACG ATGATGGGAG AGATTGTTCC TGTGGAGCAA AGAGCTGCAT CATGAATTCA  1200
GGAGCATCGG GTTCCAGAAA CTTTAGCAGT TGCAGTGCAG AGGACTTTGA GAAGTTAACT  1260
TTAAATAAAG GAGGAAACTG CCTTCTTAAT ATTCCAAAGC CTGATGAAGC CTATAGTGCT  1320
CCCTCCTGTG GTAATAAGTT GGTGGACGCT GGGGAAGAGT GTGACTGTGG TACTCCAAAG  1380
GAATGTGAAT TGGACCCTTG CTGCGAAGGA AGTACCTGTA AGCTTAAATC ATTTGCTGAG  1440
TGTGCATATG GTGACTGTTG TAAAGACTGT CGGTTCCTTC CAGGAGGTAC TTTATGCCGA  1500
GGAAAAACCA GTGAGTGTGA TGTTCCAGAG TACTGCAATG GTTCTTCTCA GTTCTGTCAG  1560
CCAGATGTTT TTATTCAGAA TGGATATCCT TGCCAGAATA ACAAAGCCTA TTGCTACAAC  1620
GGCATGTGCC AGTATTATGA TGCTCAATGT CAAGTCATCT TTGGCTCAAA AGCCAAGGCT  1680
GCCCCCAAAG ATTGTTTCAT TGAAGTGAAT TCTAAAGGTG ACAGATTTGG CAATTGTGGT  1740
TTCTCTGGCA ATGAATACAA GAAGTGTGCC ACTGGGAATG CTTTGTGTGG AAAGCTTCAG  1800
TGTGAGAATG TACAAGAGAT ACCTGTATTT GGAATTGTGC CTGCTATTAT TCAAACGCCT  1860
AGTCGAGGCA CCAAATGTTG GGGTGTGGAT TTCCAGCTAG GATCAGATGT TCCAGATCCT  1920
GGGATGGTTA ACGAAGGCAC AAAATGTGGT GCTGGAAAGA TCTGTAGAAA CTTCCAGTGT  1980
GTAGATGCTT CTGTTCTGAA TTATGACTGT GATGTTCAGA AAAAGTGTCA TGGACATGGG  2040
GTATGTAATA GCAATAAGAA TTGTCACTGT GAAAATGGCT GGGCTCCCCC AAATTGTGAG  2100
ACTAAAGGAT ACGGAGGAAG TGTGGACAGT GGACCTACAT ACAATGAAAT GAATACTGCA  2160
TTGAGGGACG GACTTCTGGT CTTCTTCTTC CTAATTGTTC CCCTTATTGT CTGTGCTATT  2220
TTTATCTTCA TCAAGAGGGA TCAACTGTGG AGAAGCTACT TCAGAAAGAA GAGATCACAA  2280
ACATATGAGT CAGATGGCAA AAATCAAGCA AACCCTTCTA GACAGCCGGG GAGTGTTCCT  2340
CGACATGTTT CTCCAGTGAC ACCTCCCAGA GAAGTTCCTA TATATGCAAA CAGATTTGCA  2400
GTACCAACCT ATGCAGCCAA GCAACCTCAG CAGTTCCCAT CAAGGCCACC TCCACCACAA  2460
CCGAAAGTAT CATCTCAGGG AAACTTAATT CCTGCCCGTC CTGCTCCTGC ACCTCCTTTA  2520
TATAGTTCCC TCACTTGATT TTTTTAACCT TCTTTTTGCA AATGTCTTCA GGGAACTGAG  2580
CTAATACTTT TTTTTTTTCT TGATGTTTTC TTGAAAAGCC TTTCTGTTGC AACTATGAAT  2640
GAAAACAAAA CACCACAAAA CAGACTTCAC TAACACAGAA AAACAGAAAC TGAGTGTGAG  2700
AGTTGTGAAA TACAAGGAAA TGCAGTAAAG CCAGGGAATT TACAATAACA TTTCCGTTTC  2760
CATCATTGAA TAAGTCTTAT TCAGTCATCG GTGAGGTTAA TGCACTAATC ATGGATTTTT  2820
TGAACATGTT ATTGCAGTGA TTCTCAAATT AACTGTATTG GTGTAAGATT TTTGTCATTA  2880
AGTGTTTAAG TGTTATTCTG AATTTTCTAC CTTAGTTATC ATTAATGTAG TTCCTCATTG  2940
AACATGTGAT AATCTAATAC CTGTGAAAAC TGACTAATCA GCTGCCAATA ATATCTAATA  3000
TTTTTCATCA TGCACGAATT AATAATCATC ATACTCTAGA ATCTTGTCTG TCACTCACTA  3060
CATGAATAAG CAAATATTGT CTTCAAAAGA ATGCACAAGA ACCACAATTA AGATGTCATA  3120
TTATTTTGAA AGTACAAAAT ATACTAAAAG AGTGTGTGTG TATTCACGCA GTTACTCGCT  3180
TCCATTTTTA TGACCTTTCA ACTATAGGTA ATAACTCTTA GAGAAATTAA TTTAATATTA  3240
GAATTTCTAT TATGAATCAT GTGAAAGCAT GACATTCGTT CACAATAGCA CTATTTTAAA  3300
TAAATTATAA GCTTTAAGGT ACGAAGTATT TAATAGATCT AATCAAATAT GTTGATTCAT  3360
GGCTATAATA AAGCAGGAGC AATTATAAAA TCTTCAATCA ATTGAACTTT TACAAAACCA  3420
CTTGAGAATT TCATGAGCAC TTTAAAATCT GAACTTTCAA AGCTTGCTAT TAAATCATTT  3480
AGAATGTTTA CATTTACTAA GGTGTGCTGG GTCATGTAAA ATATTAGACA CTAATATTTT  3540
CATAGAAATT AGGCTGGAGA AAGAAGGAAG AAATGGTTTT CTTAAATACC TACAAAAAAG  3600
TTACTGTGGT ATCTATGAGT TATCATCTTA GCTGTGTTAA AAATGAATTT TTACTATGGC  3660
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AGATATGGTA TGGATCGTAA AATTTTAAGC ACTAAAAATT TTTTCATAAC CTTTCATAAT  3720
AAAGTTTAAT AATAGGTTTA TTAACTGAAT TTCATTAGTT TTTTAAAAGT GTTTTTGGTT  3780
TGTGTATATA TACATATACA AATACAACAT TTACAATAAA TAAAATACTT GAAATTCTCA  3840
AAAAAAAAAA AAAAAAAAAA AAAAA
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Seq ID NO: 633 Protein sequence
Protein Accession #: NP_003807.1

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1          11         21         31         41         51
|          |          |          |          |          |
MGSGARFPSG TLRVRWLLLL GLVGPVLGAA RPGFQQTSHL SSYEIITPWR LTRERREAPR    60
PYSKQVSYVI QAEGKEHIIH LERNKDLLPE DFVVYTYNKE GTLITDHPNI QNHCHYRGYV   120
EGVHNSSIAL SDCFGLRGLL HLENASYGIE PLQNSSHFEH IIYRMDDVYK EPLKCGVSNK   180
DIEKETAKDE EEEPPSMTQL LRRRRAVLPQ TRYVELFIVV DKERYDMMGR NQTAVREEMI   240
LLANYLDSMY IMLNIRIVLV GLEIWTNGNL INIVGGAGDV LGNFVQWREK FLITRRRHDS   300
AQLVLKKGFG GTAGMAFVGT VCSRSHAGGI NVFGQITVET FASIVAHELG HNLGMNHDDG   360
RDCSCGAKSC IMNSGASGSR NFSSCSAEDF EKLTLNKGGN CLLNIPKPDE AYSAPSCGNK   420
LVDAGEECDC GTPKECELDP CCEGSTCKLK SFAECAYGDC CKDCRFLPGG TLCRGKTSEC   480
DVPEYCNGSS QFCQPDVFIQ NGYPCQNNKA YCYNGMCQYY DAQCQVIFGS KAKAAPKDCF   540
IEVNSKGDRF GNCGFSGNEY KKCATGNALC GKLQCENVQE IPVFGIVPAI IQTPSRGTKC   600
WGVDFQLGSD VPDPGMVNEG TKCGAGKICR NFQCVDASVL NYDCDVQKKC HGHGVCNSNK   660
NCHCENGWAP PNCETKGYGG SVDSGPTYNE MNTALRDGLL VFFFLIVPLI VCAIFIFIKR   720
DQLWRSYFRK KRSQTYESDG KNQANPSRQP GSVPRHVSPV TPPREVPIYA NRFAVPTYAA   780
KQPQQFPSRP PPPQPKVSSQ GNLIPARPAP APPLYSSLT
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Seq ID NO: 634 DNA sequence
Nucleic Acid Accession #: NM_002091.1
Coding sequence: 56..503

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1          11         21         31         41         51
|          |          |          |          |          |
AGTCTCTGCT CTTCCCAGCC TCTCCGGCGC GCTCCAAGGG CTTCCCGTCG GGACCATGCG    60
CGGCAGTGAG CTCCCGCTGG TCCTGCTGGC GCTGGTCCTC TGCCTAGCGC CCCGGGGGCG   120
AGCGGTCCCG CTGCCTGCGG GCGGAGGGAC CGTGCTGACC AAGATGTACC CGCGCGGCAA   180
CCACTGGGCG GTGGGGCACT TAATGGGGAA AAAGAGCACA GGGGAGTCTT CTTCTGTTTC   240
TGAGAGAGGG AGCCTGAAGC AGCAGCTGAG AGAGTACATC AGGTGGGAAG AAGCTGCAAG   300
GAATTTGCTG GGTCTCATAG AAGCAAAGGA GAACAGAAAC CACCAGCCAC CTCAACCCAA   360
GGCCTTGGGC AATCAGCAGC CTTCGTGGGA TTCAGAGGAT AGCAGCAACT TCAAAGATGT   420
AGGTTCAAAA GGCAAAGTTG GTAGACTCTC TGCTCCAGGT TCTCAACGTG AAGGAAGGAA   480
CCCCCAGCTG AACCAGCAAT GATAATGATG GCCTCTCTCA AAAGAGAAAA ACAAAACCCC   540
TAAGAGACTG AGTTCTGCAA GCATCAGTTC TACGGATCAT CAACAAGATT TCCTTGTGCA   600
AAATATTTGA CTATTCTGTA TCTTTCATCC TTGACTAAAT TCGTGATTTT CAAGCAGCAT   660
CTTCTGGTTT AAACTTGTTT GCTGTGAACA ATTGTCGAAA AGAGTCTTCC AATTAATGCT   720
TTTTTATATC TAGGCTACCT GTTGGTTAGA TTCAAGGCCC CGAGCTGTTA CCATTCACAA   780
TAAAAGCTTA AACACAT
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Seq ID NO: 635 Protein sequence
Protein Accession #: NP_002082.1

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1          11         21         31         41         51
|          |          |          |          |          |
MRGSELPLVL LALVLCLAPR GRAVPLPAGG GTVLTKMYPR GNHWAVGHLM GKKSTGESSS    60
VSERGSLKQQ LREYIRWEEA ARNLLGLIEA KENRNHQPPQ PKALGNQQPS WDSEDSSNFK   120
DVGSKGKVGR LSAPGSQREG RNPQLNQQ
```

Seq ID NO: 636 DNA sequence
Nucleic Acid Accession #: NM_016522.1
Coding sequence: 265..1299

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1          11         21         31         41         51
|          |          |          |          |          |
GCGGAAGCAG CGAGGAGGGA GCCCCCTTTG GCCGTCCTCC GTGGAACCGG TTTTCCGAGG    60
CTGGCAAAAG CCGAGGCTGG ATTTGGGGGA GGAATATTAG ACTCGGAGGA GTCTGCGCGC   120
TTTTCTCCTC CCCGCGCCTC CCGGTCGCCG CGGGTTCACC GCTCAGTCCC CGCGCTCGCT   180
CCGCACCCCA CCCACTTCCT GTGCTCGCCC GGGGGGCGTG TGCCGTGCGG CTGCCGGAGT   240
TCGGGGAAGT TGTGGCTGTC GAGAATGGGG GTCTGTGGGT ACCTGTTCCT GCCCTGGAAG   300
TGCCTCGTGG TCGTGTCTCT CAGGCTGCTG TTCCTTGTAC CCACAGGAGT GCCCGTGCGC   360
AGCGGAGATG CCACCTTCCC CAAAGCTATG GACAACGTGA CGGTCCGGCA GGGGGAGAGC   420
GCCACCCTCA GGTGCACTAT TGACAACCGG GTCACCCGGG TGGCCTGGCT AAACCGCAGC   480
ACCATCCTCT ATGCTGGGAA TGACAAGTGG TGCCTGGATC CTCGCGTGGT CCTTCTGAGC   540
AACACCCAAA CGCAGTACAG CATCGAGATC CAGAACGTGG ATGTGTATGA CGAGGGCCCT   600
TACACCTGCT CGGTGCAGAC AGACAACCAC CCAAAGACCT CTAGGGTCCA CCTCATTGTG   660
CAAGTATCTC CCAAAATTGT AGAGATTTCT TCAGATATCT CCATTAATGA AGGGAACAAT   720
ATTAGCCTCA CCTGCATAGC AACTGGTAGA CCAGAGCCTA CGGTTACTTG GAGACACATC   780
TCTCCCAAAG CGGTTGGCTT TGTGAGTGAA GACGAATACT TGGAAATTCA GGGCATCACC   840
CGGGAACAGT CAGGGGACTA CGAGTGCAGT GCCTCCAATG ACGTGGCCGC GCCCGTGGTA   900
CGGAGAGTAA AGGTCACCGT GAACTATCCA CCATACATTT CAGAAGCCAA GGGTACAGGT   960
GTCCCCGTGG GACAAAAGGG GACACTGCAG TGTGAAGCCT CAGCAGTCCC CTCAGCAGAA  1020
TTCCAGTGGT ACAAGGATGA CAAAAGACTG ATTGAAGGAA AGAAAGGGGT GAAAGTGGAA  1080
AACAGACCTT TCCTCTCAAA ACTCATCTTC TTCAATGTCT CTGAACATGA CTATGGGAAC  1140
TACACTTGCG TGGCCTCCAA CAAGCTGGGC CACACCAATG CCAGCATCAT GCTATTTGGT  1200
CCAGGCGCCG TCAGCGAGGT GAGCAACGGC ACGTCGAGGA GGGCAGGCTG CGTCTGGCTG  1260
CTGCCTCTTC TGGTCTTGCA CCTGCTTCTC AAATTTTGAT GTGAGTGCCA CTTCCCCACC  1320
CGGGAAAGGC TGCCGCCACC ACCACCACCA ACACAACAGC AATGGCAACA CCGACAGCAA  1380
CCAATCAGAT ATATACAAAT GAAATTAGAA GAAACACAGC CTCATGGGAC AGAAATTTGA  1440
GGGAGGGGAA CAAAGAATAC TTTGGGGGGA AAAGAGTTTT AAAAAAGAAA TTGAAAATTG  1500
CCTTGCAGAT ATTTAGGTAC AATGGAGTTT TCTTTTCCCA AACGGGAAGA ACACAGCACA  1560
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CCCGGCTTGG ACCCACTGCA AGCTGCATCG TGCAACCTCT TTGGTGCCAG TGTGGGCAAG  1620
GGCTCAGCCT CTCTGCCCAC AGACTGCCCC CACGTGGAAC ATTCTGGAGC TGGCCATCCC  1680
AAATTCAATC AGTCCATAGA GACGAACAGA ATGAGACCTT CCGGCCCAAG CGTGGCGCTT  1740
CCGGCCCAAG CGTGGCGCTG CGGGCACTTT GGTAGACTGT GCCACCACGG CGTGTGTTGT  1800
GAAACGTGAA ATAAAAAGAG CAAAAAAAAA AAAAAAAAA
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Seq ID NO: 637 Protein sequence
Protein Accession #: NP_057606.1

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1           11          21          31          41          51
|           |           |           |           |           |
MGVCGYLFLP WKCLVVVSLR LLFLVPTGVP VRSGDATFPK AMDNVTVRQG ESATLRCTID    60
NRVTRVAWLN RSTILYAGND KWCLDPRVVL LSNTQTQYSI EIQNVDVYDE GPYTCSVQTD   120
NHPKTSRVHL IVQVSPKIVE ISSDISINEG NNISLTCIAT GRPEPTVTWR HISPKAVGFV   180
SEDEYLEIQG ITREQSGDYE CSASNDVAAP VVRRVKVTVN YPPYISEAKG TGVPVGQKGT   240
LQCEASAVPS AEFQWYKDDK RLIEGKKGVK VENRPFLSKL IFFNVSEHDY GNYTCVASNK   300
LGHTNASIML FGPGAVSEVS NGTSRRAGCV WLLPLLVLHL LLKF
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Seq ID NO: 638 DNA sequence
Nucleic Acid Accession #: NM_012261.1
Coding sequence: 203..1045

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1           11          21          31          41          51
|           |           |           |           |           |
GATTTGCTCT GCCAGCAGCT GTCGGTGCCG CGCTCGACAC CGAGTCCTAG CTAGGCGCTC    60
ACAGAATACG CGCTCCCTCC CTCCCCCTTC TCTGTCCCCC GCCTCTCGCT CACCCCGGCC   120
CACTCCAGCG GCGACTTTGA GGGATTCCCT CTCTGGCGGC CTCTGCAGCA GCACAGCCGG   180
CCTCATTCGG GGCACTGCGA GTATGGATCT CCAAGGAAGA GGGGTCCCCA GCATCGACAG   240
ACTTCGAGTT CTCCTGATGT TGTTCCATAC AATGGCTCAA ATCATGGCAG AACAAGAAGT   300
GGAAAATCTC TCAGGCCTTT CCACTAACCC TGAAAAAGAT ATATTTGTGG TGCGGGAAAA   360
TGGGACGACG TGTCTCATGG CAGAGTTTGC AGCCAAATTT ATTGTACCTT ATGATGTGTG   420
GGCCAGCAAC TACGTAGATC TGATCACAGA ACAGGCCGAT ATCGCATTGA CCCGGGGAGC   480
TGAGGTGAAG GGCCGCTGTG GCCACAGCCA GTCGGAGCTG CAAGTGTTCT GGGTGGATCG   540
CGCATATGCA CTCAAAATGC TCTTTGTAAA GGAAAGCCAC AACATGTCCA AGGGACCTGA   600
GGCGACTTGG AGGCTGAGCA AAGTGCAGTT TGTCTACGAC TCCTCGGAGA AAACCCACTT   660
CAAAGACGCA GTCAGTGCTG GGAAGCACAC AGCCAACTCG CACCACCTCT CTGCCTTGGT   720
CACCCCCGCT GGGAAGTCCT ATGAGTGTCA AGCTCAACAA ACCATTTCAC TGGCCTCTAG   780
TGATCCGCAG AAGACGGTCA CCATGATCCT GTCTGCGGTC CACATCCAAC CTTTTGACAT   840
TATCTCAGAT TTTGTCTTCA GTGAAGAGCA TAAATGCCCA GTGGATGAGC GGGAGCAACT   900
GGAAGAAACC TTGCCCCTGA TTTTGGGGCT CATCTTGGGC CTCGTCATCA TGGTAACACT   960
CGCGATTTAC CACGTCCACC ACAAAATGAC TGCCAACCAG GTGCAGATCC CTCGGGACAG  1020
ATCCCAGTAT AAGCACATGG GCTAGAGGCC GTTAGGCAGG CACCCCCTAT TCCTGCTCCC  1080
CCAACTGGAT CAGGTAGAAC AACAAAAGCA CTTTTCCATC TTGTACACGA GATACACCAA  1140
CATAGCTACA ATCAAACAGG CCTGGGTATC TGAGGCTTGC TTGGCTTGTG TCCATGCTTA  1200
AACCCACGGA AGGGGGAGAC TCTTTCGGAT TTGTAGGGTG AAATGGCAAT TATTCTCTCC  1260
ATGCTGGGGA GGAGGGGAGG AGGGTCTCAG ACAGCTTTCG TGCTCATGGT GGCTTGGCTT  1320
TGACTCTCCA AAGAGCAATA AATGCCACTT GGAGCTGTAT CTGGCCCCAA AGTTTAGGGA  1380
TTGAAAACAT GCTTCTTTGA GGAGGAAACC CCTTTAGGTT CAGAAGAATA TGGGGTGCTT  1440
TGCTCCCTTG GACACAGCTG GCTTATCCTA TACAGTTGTC AATGCACACA GAATACAACC  1500
TCATGCTCCC TGCAGCAAGA CCCCTGAAAG TGATTCATGC TTCTGGCTGG CATTCTGCAT  1560
GTTTAGTGAT TGTCTTGGGA ATGTTTCACT GCTACCCGCA TCCAGCGACT GCAGCACCAG  1620
AAAACGACTA ATGTAACTAT GCAGAGTTGT TTGGACTTCT TCCTGTGCCA GGTCCAAGTC  1680
GGGGGACCTG AAGAATCAAT CTGTGTGAGT CTGTTTTTCA AAATGAAATA AAACACACTA  1740
TTCTCTGGC
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Seq ID NO: 639 Protein sequence
Protein Accession #: NP_036393.1

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1           11          21          31          41          51
|           |           |           |           |           |
MDLQGRGVPS IDRLRVLLML FHTMAQIMAE QEVENLSGLS TNPEKDIFVV RENGTTCLMA    60
EFAAKFIVPY DVWASNYVDL ITEQADIALT RGAEVKGRCG HSQSELQVFW VDRAYALKML   120
FVKESHNMSK GPEATWRLSK VQFVYDSSEK THFKDAVSAG KHTANSHHLS ALVTPAGKSY   180
ECQAQQTISL ASSDPQKTVT MILSAVHIQP FDIISDFVFS EEHKCPVDER EQLEETLPLI   240
LGLILGLVIM VTLAIYHVHH KMTANQVQIP RDRSQYKHMG
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Seq ID NO: 640 DNA sequence
Nucleic Acid Accession #: NM_002993.1
Coding sequence: 64..408

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1           11          21          31          41          51
|           |           |           |           |           |
GGCACGAGCC AGTCTCCGCG CCTCCACCCA GCTCAGGAAC CCGCGAACCC TCTCTTGACC    60
ACTATGAGCC TCCCGTCCAG CCGCGCGGCC CGTGTCCCGG GTCCTTCGGG CTCCTTGTGC   120
GCGCTGCTCG CGCTGCTGCT CCTGCTGACG CCGCCGGGGC CCCTCGCCAG CGCTGGTCCT   180
GTCTCTGCTG TGCTGACAGA GCTGCGTTGC ACTTGTTTAC GCGTTACGCT GAGAGTAAAC   240
CCCAAAACGA TTGGTAAACT GCAGGTGTTC CCCGCAGGCC CGCAGTGCTC CAAGGTGGAA   300
GTGGTAGCCT CCCTGAAGAA CGGGAAGCAA GTTTGTCTGG ACCCGGAAGC CCCTTTTCTA   360
AAGAAAGTCA TCCAGAAAAT TTTGGACAGT GGAAACAAGA AAAACTGAGT AACAAAAAAG   420
ACCATGCATC ATAAAATTGC CCAGTCTTCA GCGGAGCAGT TTTCTGGAGA TCCCTGGACC   480
CAGTAAGAAT AAGAAGGAAG GGTTGGTTTT TTTCCATTTT CTACATGGAT TCCCTACTTT   540
GAAGAGTGTG GGGGAAAGCC TACGCTTCTC CCTGAAGTTT ACAGCTCAGC TAATGAAGTA   600
CTAATATAGT ATTTCCACTA TTTACTGTTA TTTTACCTGA TAAGTTATTG AACCCTTTGG   660
CAATTGACCA TATTGTGAGC AAAGAATCAC TGGTTATTAG TCTTTCAATG AATATTGAAT   720
TGAAGATAAC TATTGTATTT CTATCATACA TTCCTTAAAG TCTTACCGAA AAGGCTGTGG   780
ATTTCGTATG GAAATAATGT TTTATTAGTG TGCTGTTGAG GGAGGTATCC TGTTGTTCTT   840
ACTCACTCTT CTCATAAAAT AGGAAATATT TTAGTTCTGT TTTCTTGGGG AATATGTTAC   900
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TCTTTACCCT AGGATGCTAT TTAAGTTGTA CTGTATTAGA ACACTGGGTG TGTCATACCG   960
TTATCTGTGC AGAATATATT TCCTTATTCA GAATTTCTAA AAATTTAAGT TCTGTAAGGG  1020
CTAATATATT CTCTTCCTAT GGTTTTAGAT GTTTGATGTC TTCTTAGTAT GGCATAATGT  1080
CATGATTTAC TCATTAAACT TTGATTTTGT ATGCTATTTT TTCACTATAG GATGACTATA  1140
ATTCTGGTCA CTAAATATAC ACTTTAGATA GATGAAGAAG CCCAAAAACA GATAAATTCC  1200
TGATTGCTAA TTTACATAGA AATGTATTCT CTTGGTTTTT TAAATAAAAG CAAAATTAAC  1260
AATGATCTGT GCTCTGCAAA GTTTTGAAAA TATATTTGAA CAATTTGAAT ATAAATTCAT  1320
CATTTAGTCC TCAAAATATA TACAGCATTG CTAAGATTTT CAGATATCTA TTGTGGATCT  1380
TTTAAAGGTT TTGACCATTT TGTTATGAGG AATTATACAT GTATCACATT CACTATATTA  1440
AAATTGCACT TTTATTTTTT CCTGTGTGTC ATGTTGGTTT TTGGTACTTG TATTGTCATT  1500
TGGAGAAACA ATAAAAGATT TCTAAACCAA AAAAAAAAAA AAAAAAA
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Seq ID NO: 641 Protein sequence
Protein Accession #: NP_002984.1

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1          11         21         31         41         51
|          |          |          |          |          |
MSLPSSRAAR VPGPSGSLCA LLALLLLLTP PGPLASAGPV SAVLTELRCT CLRVTLRVNP    60
KTIGKLQVFP AGPQCSKVEV VASLKNGKQV CLDPEAPFLK KVIQKILDSG NKKN
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Seq ID NO: 642 DNA sequence
Nucleic Acid Accession #: NM_013271.1
Coding sequence: 27..809

```
1          11         21         31         41         51
|          |          |          |          |          |
TCCGGAGCCA GGCTCGCTGG GGCAGCATGG CGGGGTCGCC GCTGCTCTGG GGGCCGCGGG    60
CCGGGGGCGT CGGCCTTTTG GTGCTGCTGC TGCTCGGCCT GTTTCGGCCG CCCCCCGCGC   120
TCTGCGCGCG GCCGGTAAAG GAACCCCGCG GCCTAAGCGC AGCGTCTCCG CCCTTGGCTG   180
AGACTGGCGC TCCTCGCCGC TTCCGGCGGT CAGTGCCCCG AGGTGAGGCG GCGGGGGCGG   240
TGCAGGAGCT GGCGCGGGCG CTGGCGCATC TGCTGGAGGC CGAACGTCAG GAGCGGGCGC   300
GGGCCGAGGC GCAGGAGGCT GAGGATCAGC AGGCGCGCGT CCTGGCGCAG CTGCTGCGCG   360
TCTGGGGCGC CCCCCGCAAC TCTGATCCGG CTCTGGGCCT GGACGACGAC CCCGACGCGC   420
CTGCAGCGCA GCTCGCTCGC GCTCTGCTCC GCGCCCGCCT TGACCCTGCC GCCCTAGCAG   480
CCCAGCTTGT CCCCGCGCCC GTCCCCGCCG CGGCGCTCCG ACCCCGGCCC CCGGTCTACG   540
ACGACGGCCC CGCGGGCCCG GATGCTGAGG AGGCAGGCGA CGAGACACCC GACGTGGACC   600
CCGAGCTGTT GAGGTACTTG CTGGGACGGA TTCTTGCGGG AAGCGCGGAC TCCGAGGGGG   660
TGGCAGCCCC GCGCCGCCTC CGCCGTGCCG CCGACCACGA TGTGGGCTCT GAGCTGCCCC   720
CTGAGGGCGT GCTGGGGGCG CTGCTGCGTG TGAAACGCCT AGAGACCCCG GCGCCCCAGG   780
TGCCTGCACG CCGCCTCTTG CCACCCTGAG CACTGCCCGG ATCCCGTGCA CCCTGGGACC   840
CAGAAGTGCC CCCGCCATCC CGCCACCAGG ACTTCTCCCC GCCAGCACGT CCAGAGCAAC   900
TTACCCCGGC CAGCCAGCCC TCTCACCCGA GGATCCCTAC CCCCTGGCCC ACAATAACAT   960
GATCTGAGC
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Seq ID NO: 643 Protein sequence
Protein Accession #: NP_037403.1

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1          11         21         31         41         51
|          |          |          |          |          |
MAGSPLLWGP RAGGVGLLVL LLLGLFRPPP ALCARPVKEP RGLSAASPPL AETGAPRRFR    60
RSVPRGEAAG AVQELARALA HLLEAERQER ARAEAQEAED QQARVLAQLL RVWGAPRNSD   120
PALGLDDDPD APAAQLARAL LRARLDPAAL AAQLVPAPVP AAALRPRPPV YDDGPAGPDA   180
EEAGDETPDV DPELLRYLLG RILAGSADSE GVAAPRRLRR AADHDVGSEL PPEGVLGALL   240
RVKRLETPAP QVPARRLLPP
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Seq ID NO: 644 DNA sequence
Nucleic Acid Accession #: NM_002214
Coding sequence: 681..2990

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1          11         21         31         41         51
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CTGCCGACTT GTCTTTGCCC GCTGCTCCGC AGACGGGGCT GCAAAGCTGC AACTAATGGT   120
GTTGGCCTCC CTGCCCACCT GTGGAAGCAA CTGCGCTGAT TGATGCGCCA CAGACTTTTT   180
TCCCCTCGAC CTCGCCGGCG TACCCTCCCA CAGATCCAGC ATCACCCAGT GAATGTACAT   240
TAGGGTGGTT TCCCCCCCAG CTTCGGGCTT TGTTTGGGTT TGATTGTGTT TGGCTCTTCG   300
CTAAGCTGAT TTATGCAGCA GAAGCCCCAC CGGCTGGAGA GAAACAAAAG CTCTTTTCTT   360
TGTCCCGGAG CAGGCTGCGG AGCCCTTGCA GAGCCCTCTC TCCAGTCGCC GCCGGGCCCT   420
TGGCCGTCGA AGGAGGTGCT TCTCGCGGAG ACCGCGGGAC CCGCCGTGCC GAGCCGGGAG   480
GGCCGTAGGG GCCCTGAGAT GCCGAGCGGT GCCCGGGCCC GCTTACCTGC ACCGCTTGCT   540
CCGAGCCGCG GGGTCCGCCT GCTAGGCCTG CGGAAAACGT CCTAGCGACA CTCGCCCGCG   600
GGCCCCGAGG TCGCCCGGGA GGCCGAGCCC GCGTCCGGAA GGCAGCCAGG CGGCGGGCGC   660
GGGGCGGGCT GTTTTGCATT ATGTGCGGCT CGGCCCTGGC TTTTTTTACC GCTGCATTTG   720
TCTGCCTGCA AAACGACCGG CGAGGTCCCG CCTCGTTCCT CTGGGCAGCC TGGGTGTTTT   780
CACTTGTTCT TGGACTGGGC CAAGGTGAAG ACAATAGATG TGCATCTTCA AATGCAGCAT   840
CCTGTGCCAG GTGCCTTGCG CTGGGTCCAG AATGTGGATG GTGTGTTCAA GAGGATTTCA   900
TTTCAGGTGG ATCAAGAAGT GAACGTTGTG ATATTGTTTC CAATTTAATA AGCAAAGGCT   960
GCTCAGTTGA TTCAATAGAA TACCCATCTG TGCATGTTAT AATACCCACT GAAAATGAAA  1020
TTAATACCCA GGTGACACCA GGAGAAGTGT CTATCCAGCT GCGTCCAGGA GCCGAAGCTA  1080
ATTTTATGCT GAAAGTTCAT CCTCTGAAGA AATATCCTGT GGATCTTTAT TATCTTGTTG  1140
ATGTCTCAGC ATCAATGCAC AATAATATAG AAAAATTAAA TTCCGTTGGA AACGATTTAT  1200
CTAGAAAAAT GGCATTTTTC TCCCGTGACT TTCGTCTTGG ATTTGGCTCA TACGTTGATA  1260
AAACAGTTTC ACCATACATT AGCATCCACC CCGAAAGGAT TCATAATCAA TGCAGTGACT  1320
ACAATTTAGA CTGCATGCCT CCCCATGGAT ACATCCATGT GCTGTCTTTG ACAGAGAACA  1380
TCACTGAGTT TGAGAAAGCA GTTCATAGAC AGAAGATCTC TGGAAACATA GATACACCAG  1440
AAGGAGGTTT TGACGCCATG CTTCAGGCAG CTGTCTGTGA AAGTCATATC GGATGGCGAA  1500
AAGAGGCTAA AAGATTGCTG CTGGTGATGA CAGATCAGAC GTCTCATCTC GCTCTTGATA  1560
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GCAAATTGGC AGGCATAGTG GTGCCCAATG ACGGAAACTG TCATCTGAAA AACAACGTCT  1620
ACGTCAAATC GACAACCATG GAACACCCCT CACTAGGCCA ACTTTCAGAG AAATTAATAG  1680
ACAACAACAT TAATGTCATC TTTGCAGTTC AAGGAAAACA ATTTCATTGG TATAAGGATC  1740
TTCTACCCCT CTTGCCAGGC ACCATTGCTG GTGAAATAGA ATCAAAGGCT GCAAACCTCA  1800
ATAATTTGGT AGTGGAAGCC TATCAGAAGC TCATTTCAGA AGTGAAAGTT CAGGTGGAAA  1860
ACCAGGTACA AGGCATCTAT TTTAACATTA CCGCCATCTG TCCAGATGGG TCCAGAAAGC  1920
CAGGCATGGA AGGATGCAGA AACGTGACGA GCAATGATGA AGTTCTTTTC AATGTAACAG  1980
TTACAATGAA AAAATGTGAT GTCACAGGAG GAAAAAACTA TGCAATAATC AAACCTATTG  2040
GTTTTAATGA AACCGCTAAA ATTCATATAC ACAGAAACTG CAGCTGTCAG TGTGAGGACA  2100
ACAGAGGACC TAAAGGAAAG TGTGTAGATG AAACTTTTCT AGATTCCAAG TGTTTCCAGT  2160
GTGATGAGAA TAAATGTCAT TTTGATGAAG ATCAGTTTTC TTCTGAGAGT TGCAAGTCAC  2220
ACAAGGATCA GCCTGTTTGC AGTGGTCGAG GAGTTTGTGT TTGTGGGAAA TGTTCATGTC  2280
ACAAAATTAA GCTTGGAAAA GTGTATGGAA AATACTGTGA AAAGGATGAC TTTTCTTGTC  2340
CATATCACCA TGGAAATCTG TGTGCTGGGC ATGGAGAGTG TGAAGCAGGC AGATGCCAAT  2400
GCTTCAGTGG CTGGGAAGGT GATCGATGCC AGTGCCCTTC AGCAGCAGCC CAGCACTGTG  2460
TCAATTCAAA GGGCCAAGTG TGCAGTGGAA GAGGCACGTG TGTGTGTGGA AGGTGTGAGT  2520
GCACCGATCC CAGGAGCATC GGCCGCTTCT GTGAACACTG CCCCACCTGT TATACAGCCT  2580
GCAAGGAAAA CTGGAATTGT ATGCAATGCC TTCACCCTCA CAATTTGTCT CAGGCTATAC  2640
TTGATCAGTG CAAAACCTCA TGTGCTCTCA TGGAACAACA GCATTATGTC GACCAAACTT  2700
CAGAATGTTT CTCCAGCCCA AGCTACTTGA GAATATTTTT CATCATTTTC ATAGTTACAT  2760
TCTTGATTGG GTTGCTTAAA GTCCTGATCA TTAGACAGGT GATACTACAA TGGAATAGTA  2820
ATAAAATTAA GTCCTCATCA GATTACAGAG TGTCAGCCTC AAAAAAGGAT AAGTTGATTC  2880
TGCAAAGTGT TTGCACAAGA GCAGTCACCT ACCGACGTGA GAAGCCTGAA GAAATAAAAA  2940
TGGATATCAG CAAATTAAAT GCTCATGAAA CTTTCAGGTG CAACTTCTAA AAAAAGATTT  3000
TTAAACACTT AATGGGAAAC TGGAATTGTT AATAATTGCT CCTAAAGATT ATAATTTTAA  3060
AAGTCACAGG AGGAGACAAA TTGCTCACGG TCATGCCAGT TGCTGGTTGT ACACTCGAAC  3120
GAAGACTGAC AAGTATCCTC ATCATGATGT GACTCACATA GCTGCTGACT TTTTCAGAGA  3180
AAAATGTGTC TTACTACTGT TTGAGACTAG TGTCGTTGTA GCACTTTACT GTAATATATA  3240
ACTTATTTAG ATCAGCATAG AATGTAGATC CTCTGAAGAG CACTGATTAC ACTTTACAGG  3300
TACCTGTTAT CCCTACGCTT CCCAGAGAGA ACAATGCTGT GAGAGAGTTT AGCATTGTGT  3360
CACTACAAGG GTACAGTAAT CCCTGCACTG GACATGTGAG GAAAAAAATA ATCTGGCAAG  3420
TATATTCTAA GGTTGCCAAA CACTTCAACA GTTGGTGGTT GAATAGACAA GAACAGCTAG  3480
ATGAATAAAT GATTCGTGTT TCACTCTTTC AAGAGGTGAA CAGATACAAC CTTAATCTTA  3540
AAAGATTATT GCTTTTTAAA GTGTGTAGTT TTATGCATGT GTGTTTATGG TTTGCTTATT  3600
TTTGCAAGAT GGATACTAAT TCCAGCATTC TCTCCTCTTT GCCTTTATGT TTTGTTTTCT  3660
TTTTTACAGG ATAAGTTTAT GTATGTCACA GATGACTGGA TTAATTAAGT GCTAAGTTAC  3720
TACTGCCATA AAAAACTAAT AATACAATGT CACTTTATCA GAATACTAGT TTTAAAAGCT  3780
GAATGTTAA
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Seq ID NO: 645 Protein sequence
Protein Accession #: NP_002205

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1          11         21         31         41         51
|          |          |          |          |          |
MCGSALAFFT AAFVCLQNDR RGPASFLWAA WVFSLVLGLG QGEDNRCASS NAASCARCLA    60
LGPECGWCVQ EDFISGGSRS ERCDIVSNLI SKGCSVDSIE YPSVHVIIPT ENEINTQVTP   120
GEVSIQLRPG AEANFMLKVH PLKKYPVDLY YLVDVSASMH NNIEKLNSVG NDLSRKMAFF   180
SRDFRLGFGS YVDKTVSPYI SIHPERIHNQ CSDYNLDCMP PHGYIHVLSL TENITEFEKA   240
VHRQKISGNI DTPEGGFDAM LQAAVCESHI GWRKEAKRLL LVMTDQTSHL ALDSKLAGIV   300
VPNDGNCHLK NNVYVKSTTM EHPSLGQLSE KLIDNNINVI FAVQGKQFHW YKDLLPLLPG   360
TIAGEIESKA ANLNNLVVEA YQKLISEVKV QVENQVQGIY FNITAICPDG SRKPGMEGCR   420
NVTSNDEVLF NVTVTMKKCD VTGGKNYAII KPIGFNETAK IHIHRNCSCQ CEDNRGPKGK   480
CVDETFLDSK CFQCDENKCH FDEDQFSSES CKSHKDQPVC SGRGVCVCGK CSCHKIKLGK   540
VYGKYCEKDD FSCPYHHGNL CAGHGECEAG RCQCFSGWEG DRCQCPSAAA QHCVNSKGQV   600
CSGRGTCVCG RCECTDPRSI GRFCEHCPTC YTACKENWNC MQCLHPHNLS QAILDQCKTS   660
CALMEQQHYV DQTSECFSSP SYLRIFFIIF IVTFLIGLLK VLIIRQVILQ WNSNKIKSSS   720
DYRVSASKKD KLILQSVCTR AVTYRREKPE EIKMDISKLN AHETFRCNF
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Seq ID NO: 646 DNA sequence
Nucleic Acid Accession #: NM_003318.1
Coding sequence: 1..2574

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AGAGACATTA AAAATAAGTT TAAAAATGAA GACCTTACTG ATGAACTAAG CTTGAATAAA   120
ATTTCTGCTG ATACTACAGA TAACTCGGGA ACTGTTAACC AAATTATGAT GATGGCAAAC   180
AACCCAGAGG ACTGGTTGAG TTTGTTGCTC AAACTAGAGA AAAACAGTGT TCCGCTAAGT   240
GATGCTCTTT TAAATAAATT GATTGGTCGT TACAGTCAAG CAATTGAAGC GCTTCCCCCA   300
GATAAATATG GCCAAAATGA GAGTTTTGCT AGAATTCAAG TGAGATTTGC TGAATTAAAA   360
GCTATTCAAG AGCCAGATGA TGCACGTGAC TACTTTCAAA TGGCCAGAGC AAACTGCAAG   420
AAATTTGCTT TTGTTCATAT ATCTTTTGCA CAATTTGAAC TGTCACAAGG TAATGTCAAA   480
AAAAGTAAAC AACTTCTTCA AAAAGCTGTA GAACGTGGAG CAGTACCACT AGAAATGCTG   540
GAAATTGCCC TGCGGAATTT AAACCTCCAA AAAAAGCAGC TGCTTTCAGA GGAGGAAAAG   600
AAGAATTTAT CAGCATCTAC GGTATTAACT GCCCAAGAAT CATTTTCCGG TTCACTTGGG   660
CATTTACAGA ATAGGAACAA CAGTTGTGAT TCCAGAGGAC AGACTACTAA AGCCAGGTTT   720
TTATATGGAG AGAACATGCC ACCACAAGAT GCAGAAATAG GTTACCGGAA TTCATTGAGA   780
CAAACTAACA AAACTAAACA GTCATGCCCA TTTGGAAGAG TCCCAGTTAA CCTTCTAAAT   840
AGCCCAGATT GTGATGTGAA GACAGATGAT TCAGTTGTAC CTTGTTTTAT GAAAAGACAA   900
ACCTCTAGAT CAGAATGCCG AGATTTGGTT GTGCCTGGAT CTAAACCAAG TGGAAATGAT   960
TCCTGTGAAT TAAGAAATTT AAAGTCTGTT CAAAATAGTC ATTTCAAGGA ACCTCTGGTG  1020
TCAGATGAAA AGAGTTCTGA ACTTATTATT ACTGATTCAA TAACCCTGAA GAATAAAACG  1080
GAATCAAGTC TTCTAGCTAA ATTAGAAGAA ACTAAAGAGT ATCAAGAACC AGAGGTTCCA  1140
GAGAGTAACC AGAAACAGTG GCAATCTAAG AGAAAGTCAG AGTGTATTAA CCAGAATCCT  1200
GCTGCATCTT CAAATCACTG GCAGATTCCG GAGTTAGCCC GAAAAGTTAA TACAGAGCAG  1260
AAACATACCA CTTTTGAGCA ACCTGTCTTT TCAGTTTCAA AACAGTCACC ACCAATATCA  1320
ACATCTAAAT GGTTTGACCC AAAATCTATT TGTAAGACAC CAAGCAGCAA TACCTTGGAT  1380
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GATTACATGA GCTGTTTTAG AACTCCAGTT GTAAAGAATG ACTTTCCACC TGCTTGTCAG  1440
TTGTCAACAC CTTATGGCCA ACCTGCCTGT TTCCAGCAGC AACAGCATCA AATACTTGCC  1500
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AAAGGAAGAA TTTATTCCAT TTTAAAGCAG ATAGGAAGTG GAGGTTCAAG CAAGGTATTT  1620
CAGGTGTTAA ATGAAAAGAA ACAGATATAT GCTATAAAAT ATGTGAACTT AGAAGAAGCA  1680
GATAACCAAA CTCTTGATAG TTACCGGAAC GAAATAGCTT ATTTGAATAA ACTACAACAA  1740
CACAGTGATA AGATCATCCG ACTTTATGAT TATGAAATCA CGGACCAGTA CATCTACATG  1800
GTAATGGAGT GTGGAAATAT TGATCTTAAT AGTTGGCTTA AAAAGAAAAA ATCCATTGAT  1860
CCATGGGAAC GCAAGAGTTA CTGGAAAAAT ATGTTAGAGG CAGTTCACAC AATCCATCAA  1920
CATGGCATTG TTCACAGTGA TCTTAAACCA GCTAACTTTC TGATAGTTGA TGGAATGCTA  1980
AAGCTAATTG ATTTTGGGAT TGCAAACCAA ATGCAACCAG ATACAACAAG TGTTGTTAAA  2040
GATTCTCAGG TTGGCACAGT TAATTATATG CCACCAGAAG CAATCAAAGA TATGTCTTCC  2100
TCCAGAGAGA ATGGGAAATC TAAGTCAAAG ATAAGCCCCA AAAGTGATGT TTGGTCCTTA  2160
GGATGTATTT TGTACTATAT GACTTACGGG AAAACACCAT TTCAGCAGAT AATTAATCAG  2220
ATTTCTAAAT TACATGCCAT AATTGATCCT AATCATGAAA TTGAATTTCC CGATATTCCA  2280
GAGAAAGATC TTCAAGATGT GTTAAAGTGT TGTTTAAAAA GGGACCCAAA ACAGAGGATA  2340
TCCATTCCTG AGCTCCTGGC TCATCCCTAT GTTCAAATTC AAACTCATCC AGTTAACCAA  2400
ATGGCCAAGG GAACCACTGA AGAAATGAAA TATGTTCTGG GCCAACTTGT TGGTCTGAAT  2460
TCTCCTAACT CCATTTTGAA AGCTGCTAAA ACTTTATATG AACACTATAG TGGTGGTGAA  2520
AGTCATAATT CTTCATCCTC CAAGACTTTT GAAAAAAAAA GGGGAAAAAA ATGA
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Seq ID NO: 647 Protein sequence
Protein Accession #: NP_003309.1

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1           11          21          31          41          51
|           |           |           |           |           |
MESEDLSGRE LTIDSIMNKV RDIKNKFKNE DLTDELSLNK ISADTTDNSG TVNQIMMMAN    60
NPEDWLSLLL KLEKNSVPLS DALLNKLIGR YSQAIEALPP DKYGQNESFA RIQVRFAELK   120
AIQEPDDARD YFQMARANCK KFAFVHISFA QFELSQGNVK KSKQLLQKAV ERGAVPLEML   180
EIALRNLNLQ KKQLLSEEEK KNLSASTVLT AQESFSGSLG HLQNRNNSCD SRGQTTKARF   240
LYGENMPPQD AEIGYRNSLR QTNKTKQSCP FGRVPVNLLN SPDCDVKTDD SVVPCFMKRQ   300
TSRSECRDLV VPGSKPSGND SCELRNLKSV QNSHFKEPLV SDEKSSELII TDSITLKNKT   360
ESSLLAKLEE TKEYQEPEVP ESNQKQWQSK RKSECINQNP AASSNHWQIP ELARKVNTEQ   420
KHTTFEQPVF SVSKQSPPIS TSKWFDPKSI CKTPSSNTLD DYMSCFRTPV VKNDFPPACQ   480
LSTPYGQPAC FQQQQHQILA TPLQNLQVLA SSSANECISV KGRIYSILKQ IGSGGSSKVF   540
QVLNEKKQIY AIKYVNLEEA DNQTLDSYRN EIAYLNKLQQ HSDKIIRLYD YEITDQYIYM   600
VMECGNIDLN SWLKKKKSID PWERKSYWKN MLEAVHTIHQ HGIVHSDLKP ANFLIVDGML   660
KLIDFGIANQ MQPDTTSVVK DSQVGTVNYM PPEAIKDMSS SRENGKSKSK ISPKSDVWSL   720
GCILYYMTYG KTPFQQIINQ ISKLHAIIDP NHEIEFPDIP EKDLQDVLKC CLKRDPKQRI   780
SIPELLAHPY VQIQTHPVNQ MAKGTTEEMK YVLGQLVGLN SPNSILKAAK TLYEHYSGGE   840
SHNSSSSKTF EKKRGKK
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Seq ID NO: 648 DNA sequence
Nucleic Acid Accession #: NM_015507
Coding sequence: 241..1902

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CGCCCCTGCC GCGGTGCCTG GCCTCCCCTC CCAGACTGCA GGGACAGCAC CCGGTAACTG   120
CGAGTGGAGC GGAGGACCCG AGCGGCTGAG GAGAGAGGAG GCGGCGGCTT AGCTGCTACG   180
GGGTCCGGCC GGCGCCCTCC CGAGGGGGGC TCAGGAGGAG GAAGGAGGAC CCGTGCGAGA   240
ATGCCTCTGC CCTGGAGCCT TGCGCTCCCG CTGCTGCTCT CCTGGGTGGC AGGTGGTTTC   300
GGGAACGCGG CCAGTGCAAG GCATCACGGG TTGTTAGCAT CGGCACGTCA GCCTGGGGTC   360
TGTCACTATG GAACTAAACT GGCCTGCTGC TACGGCTGGA GAAGAAACAG CAAGGGAGTC   420
TGTGAAGCTA CATGCGAACC TGGATGTAAG TTTGGTGAGT GCGTGGGACC AAACAAATGC   480
AGATGCTTTC CAGGATACAC CGGGAAAACC TGCAGTCAAG ATGTGAATGA GTGTGGAATG   540
AAACCCCGGC CATGCCAACA CAGATGTGTG AATACACACG GAAGCTACAA GTGCTTTTGC   600
CTCAGTGGCC ACATGCTCAT GCCAGATGCT ACGTGTGTGA ACTCTAGGAC ATGTGCCATG   660
ATAAACTGTC AGTACAGCTG TGAAGACACA GAAGAAGGGC CACAGTGCCT GTGTCCATCC   720
TCAGGACTCC GCCTGGCCCC AAATGGAAGA GACTGTCTAG ATATTGATGA ATGTGCCTCT   780
GGTAAAGTCA TCTGTCCCTA CAATCGAAGA TGTGTGAACA CATTTGGAAG CTACTACTGC   840
AAATGTCACA TTGGTTTCGA ACTGCAATAT ATCAGTGGAC GATATGACTG TATAGATATA   900
AATGAATGTA CTATGGATAG CCATACGTGC AGCCACCATG CCAATTGCTT CAATACCCAA   960
GGGTCCTTCA AGTGTAAATG CAAGCAGGGA TATAAAGGCA ATGGACTTCG GTGTTCTGCT  1020
ATCCCTGAAA ATTCTGTGAA GGAAGTCCTC AGAGCACCTG GTACCATCAA AGACAGAATC  1080
AAGAAGTTGC TTGCTCACAA AAACAGCATG AAAAAGAAGG CAAAAATTAA AAATGTTACC  1140
CCAGAACCCA CCAGGACTCC TACCCCTAAG GTGAACTTGC AGCCCTTCAA CTATGAAGAG  1200
ATAGTTTCCA GAGGCGGGAA CTCTCATGGA GGTAAAAAAG GGAATGAAGA GAAAATGAAA  1260
GAGGGGCTTG AGGATGAGAA AAGAGAAGAG AAAGCCCTGA AGAATGACAT AGAGGAGCGA  1320
AGCCTGCGAG GAGATGTGTT TTTCCCTAAG GTGAATGAAG CAGGTGAATT CGGCCTGATT  1380
CTGGTCCAAA GGAAAGCGCT AACTTCCAAA CTGGAACATA AAGATTTAAA TATCTCGGTT  1440
GACTGCAGCT TCAATCATGG GATCTGTGAC TGGAAACAGG ATAGAGAAGA TGATTTTGAC  1500
TGGAATCCTG CTGATCGAGA TAATGCTATT GGCTTCTATA TGGCAGTTCC GGCCTTGGCA  1560
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AACTTCTGTT TGCTCTTTGA TTACCGGCTG GCCGGAGACA AAGTCGGGAA ACTTCGAGTG  1680
TTTGTGAAAA ACAGTAACAA TGCCCTGGCA TGGGAGAAGA CCACGAGTGA GGATGAAAAG  1740
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GAAGCAGAAC GTGGCAAGGG CAAAACCGGC GAAATCGCAG TGGATGGCGT CTTGCTTGTT  1860
TCAGGCTTAT GTCCAGATAG CCTTTTATCT GTGGATGACT GAATGTTACT ATCTTTATAT  1920
TTGACTTTGT ATGTCAGTTC CCTGGTTTTT TTGATATTGC ATCATAGGAC CTCTGGCATT  1980
TTAGAATTAC TAGCTGAAAA ATTGTAATGT ACCAACAGAA ATATTATTGT AAGATGCCTT  2040
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TTTCTGAATC TTTCCACATT ATATTATAAA ATATGGAAAT GTCAGTTTAT CTCCCCTCCT  2160
CAGTATATCT GATTTGTATA AGTAAGTTGA TGAGCTTCTC TCTACAACAT TTCTAGAAAA  2220
TAGAAAAAAA AGCACAGAGA AATGTTTAAC TGTTTGACTC TTATGATACT TCTTGGAAAC  2280
TATGACATCA AAGATAGACT TTTGCCTAAG TGGCTTAGCT GGGTCTTTCA TAGCCAAACT  2340
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TGTATATTTA AATTCTTTGT AATAATAATA TCCAAATCAT CAAAAAAAAA AAAAAAAA

Seq ID NO: 649 Protein sequence
Protein Accession #: NP_056322

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1           11          21          31          41          51
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MPLPWSLALP LLLSWVAGGF GNAASARHHG LLASARQPGV CHYGTKLACC YGWRRNSKGV    60
CEATCEPGCK FGECVGPNKC RCFPGYTGKT CSQDVNECGM KPRPCQHRCV NTHGSYKCFC   120
LSGHMLMPDA TCVNSRTCAM INCQYSCEDT EEGPQCLCPS SGLRLAPNGR DCLDIDECAS   180
GKVICPYNRR CVNTFGSYYC KCHIGFELQY ISGRYDCIDI NECTMDSHTC SHHANCFNTQ   240
GSFKCKCKQG YKGNGLRCSA IPENSVKEVL RAPGTIKDRI KKLLAHKNSM KKKAKIKNVT   300
PEPTRTPTPK VNLQPFNYEE IVSRGGNSHG GKKGNEEKMK EGLEDEKREE KALKNDIEER   360
SLRGDVFFPK VNEAGEFGLI LVQRKALTSK LEHKDLNISV DCSFNHGICD WKQDREDDFD   420
WNPADRDNAI GFYMAVPALA GHKKDIGRLK LLLPDLQPQS NFCLLFDYRL AGDKVGKLRV   480
FVKNSNNALA WEKTTSEDEK WKTGKIQLYQ GTDATKSIIF EAERGKGKTG EIAVDGVLLV   540
SGLCPDSLLS VDD
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Seq ID NO: 650 DNA sequence
Nucleic Acid Accession #: NM_003506.1
Coding sequence: 259..2379

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TTAGACGGGG ACGGGAAGGG ACAGCGGCCT TCGACCGCCC CCCGAGTAAT TGACCCAGGA   120
CTCATTTTCA GGAAAGCCTG AAAATGAGTA AAATAGTGAA ATGAGGAATT TGAACATTTT   180
ATCTTTGGAT GGGGATCTTC TGAGGATGCA AAGAGTGATT CATCCAAGCC ATGTGGTAAA   240
ATCAGGAATT TGAAGAAAAT GGAGATGTTT ACATTTTTGT TGACGTGTAT TTTTCTACCC   300
CTCCTAAGAG GGCACAGTCT CTTCACCTGT GAACCAATTA CTGTTCCCAG ATGTATGAAA   360
ATGGCCTACA ACATGACGTT TTTCCCTAAT CTGATGGGTC ATTATGACCA GAGTATTGCC   420
GCGGTGGAAA TGGAGCATTT TCTTCCTCTC GCAAATCTGG AATGTTCACC AAACATTGAA   480
ACTTTCCTCT GCAAAGCATT TGTACCAACC TGCATAGAAC AAATTCATGT GGTTCCACCT   540
TGTCGTAAAC TTTGTGAGAA AGTATATTCT GATTGCAAAA AATTAATTGA CACTTTTGGG   600
ATCCGATGGC CTGAGGAGCT TGAATGTGAC AGATTACAAT ACTGTGATGA GACTGTTCCT   660
GTAACTTTTG ATCCACACAC AGAATTTCTT GGTCCTCAGA AGAAAACAGA ACAAGTCCAA   720
AGAGACATTG GATTTTGGTG TCCAAGGCAT CTTAAGACTT CTGGGGGACA AGGATATAAG   780
TTTCTGGGAA TTGACCAGTG TGCGCCTCCA TGCCCCAACA TGTATTTTAA AAGTGATGAG   840
CTAGAGTTTG CAAAAAGTTT TATTGGAACA GTTTCAATAT TTTGTCTTTG TGCAACTCTG   900
TTCACATTCC TTACTTTTTT AATTGATGTT AGAAGATTCA GATACCCAGA GAGACCAATT   960
ATATATTACT CTGTCTGTTA CAGCATTGTA TCTCTTATGT ACTTCATTGG ATTTTTGCTG  1020
GGCGATAGCA CAGCCTGCAA TAAGGCAGAT GAGAAGCTAG AACTTGGTGA CACTGTTGTC  1080
CTAGGCTCTC AAAATAAGGC TTGCACCGTT TTGTTCATGC TTTTGTATTT TTTCACAATG  1140
GCTGGCACTG TGTGGTGGGT GATTCTTACC ATTACTTGGT TCTTAGCTGC AGGAAGAAAA  1200
TGGAGTTGTG AAGCCATCGA GCAAAAAGCA GTGTGGTTTC ATGCTGTTGC ATGGGGAACA  1260
CCAGGTTTCC TGACTGTTAT GCTTCTTGCT CTGAACAAAG TTGAAGGAGA CAACATTAGT  1320
GGAGTTTGCT TTGTTGGCCT TTATGACCTG GATGCTTCTC GCTACTTTGT ACTCTTGCCA  1380
CTGTGCCTTT GTGTGTTTGT TGGGCTCTCT CTTCTTTTAG CTGGCATTAT TTCCTTAAAT  1440
CATGTTCGAC AAGTCATACA ACATGATGGC CGGAACCAAG AAAAACTAAA GAAATTTATG  1500
ATTCGAATTG GAGTCTTCAG CGGCTTGTAT CTTGTGCCAT TAGTGACACT TCTCGGATGT  1560
TACGTCTATG AGCAAGTGAA CAGGATTACC TGGGAGATAA CTTGGGTCTC TGATCATTGT  1620
CGTCAGTACC ATATCCCATG TCCTTATCAG GCAAAAGCAA AAGCTCGACC AGAATTGGCT  1680
TTATTTATGA TAAAATACCT GATGACATTA ATTGTTGGCA TCTCTGCTGT CTTCTGGGTT  1740
GGAAGCAAAA AGACATGCAC AGAATGGGCT GGGTTTTTTA AACGAAATCG CAAGAGAGAT  1800
CCAATCAGTG AAAGTCGAAG AGTACTACAG GAATCATGTG AGTTTTTCTT AAAGCACAAT  1860
TCTAAAGTTA AACACAAAAA GAAGCACTAT AAACCAAGTT CACACAAGCT GAAGGTCATT  1920
TCCAAATCCA TGGGAACCAG CACAGGAGCT ACAGCAAATC ATGGCACTTC TGCAGTAGCA  1980
ATTACTAGCC ATGATTACCT AGGACAAGAA ACTTTGACAG AAATCCAAAC CTCACCAGAA  2040
ACATCAATGA GAGAGGTGAA AGCGGACGGA GCTAGCACCC CCAGGTTAAG AGAACAGGAC  2100
TGTGGTGAAC CTGCCTCGCC AGCAGCATCC ATCTCCAGAC TCTCTGGGGA ACAGGTCGAC  2160
GGGAAGGGCC AGGCAGGCAG TGTATCTGAA AGTGCGCGGA GTGAAGGAAG GATTAGTCCA  2220
AAGAGTGATA TTACTGACAC TGGCCTGGCA CAGAGCAACA ATTTGCAGGT CCCCAGTTCT  2280
TCAGAACCAA GCAGCCTCAA AGGTTCCACA TCTCTGCTTG TTCACCCAGT TTCAGGAGTG  2340
AGAAAAGAGC AGGGAGGTGG TTGTCATTCA GATACTTGAA GAACATTTTC TCTCGTTACT  2400
CAGAAGCAAA TTTGTGTTAC ACTGGAAGTG ACCTATGCAC TGTTTTGTAA GAATCACTGT  2460
TACGTTCTTC TTTTGCACTT AAAGTTGCAT TGCCTACTGT TATACTGGAA AAAATAGAGT  2520
TCAAGAATAA TATGACTCAT TTCACACAAA GGTTAATGAC AACAATATAC CTGAAAACAG  2580
AAATGTGCAG GTTAATAATA TTTTTTTAAT AGTGTGGGAG GACAGAGTTA GAGGAATCTT  2640
CCTTTTCTAT TTATGAAGAT TCTACTCTTG GTAAGAGTAT TTTAAGATGT ACTATGCTAT  2700
TTTACCTTTT TGATATAAAA TCAAGATATT TCTTTGCTGA AGTATTTAAA TCTTATCCTT  2760
GTATCTTTTT ATACATATTT GAAAATAAGC TTATATGTAT TTGAACTTTT TTGAAATCCT  2820
ATTCAAGTAT TTTTATCATG CTATTGTGAT ATTTTAGCAC TTTGGTAGCT TTTACACTGA  2880
ATTTCTAAGA AAATTGTAAA ATAGTCTTCT TTTATACTGT AAAAAAAGAT ATACCAAAAA  2940
GTCTTATAAT AGGAATTTAA CTTTAAAAAC CCACTTATTG ATACCTTACC ATCTAAAATG  3000
TGTGATTTTT ATAGTCTCGT TTTAGGAATT TCACAGATCT AAATTATGTA ACTGAAATAA  3060
GGTGCTTACT CAAAGAGTGT CCACTATTGA TTGTATTATG CTGCTCACTG ATCCTTCTGC  3120
ATATTTAAAA TAAAATGTCC TAAAGGGTTA GTAGACAAAA TGTTAGTCTT TTGTATATTA  3180
GGCCAAGTGC AATTGACTTC CCTTTTTTAA TGTTTCATGA CCACCCATTG ATTGTATTAT  3240
AACCACTTAC AGTTGCTTAT ATTTTTTGTT TTAACTTTTG TTTCTTAACA TTTAGAATAT  3300
TACATTTTGT ATTATACAGT ACCTTTCTCA GACATTTTGT AG
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Seq ID NO: 651 Protein sequence
Protein Accession #: NP_003497.1

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1           11          21          31          41          51
|           |           |           |           |           |
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MEMFTFLLTC IFLPLLRGHS LFTCEPITVP RCMKMAYNMT FFPNLMGHYD QSIAAVEMEH    60
FLPLANLECS PNIETFLCKA FVPTCIEQIH VVPPCRKLCE KVYSDCKKLI DTFGIRWPEE   120
LECDRLQYCD ETVPVTFDPH TEFLGPQKKT EQVQRDIGFW CPRHLKTSGG QGYKFLGIDQ   180
CAPPCPNMYF KSDELEFAKS FIGTVSIFCL CATLFTFLTF LIDVRRFRYP ERPIIYYSVC   240
YSIVSLMYFI GFLLGDSTAC NKADEKLELG DTVVLGSQNK ACTVLFMLLY FFTMAGTVWW   300
VILTITWFLA AGRKWSCEAI EQKAVWFHAV AWGTPGFLTV MLLALNKVEG DNISGVCFVG   360
LYDLDASRYF VLLPLCLCVF VGLSLLLAGI ISLNHVRQVI QHDGRNQEKL KKFMIRIGVF   420
SGLYLVPLVT LLGCYVYEQV NRITWEITWV SDHCRQYHIP CPYQAKAKAR PELALFMIKY   480
LMTLIVGISA VFWVGSKKTC TEWAGFFKRN RKRDPISESR RVLQESCEFF LKHNSKVKHK   540
KKHYKPSSHK LKVISKSMGT STGATANHGT SAVAITSHDY LGQETLTEIQ TSPETSMREV   600
KADGASTPRL REQDCGEPAS PAASISRLSG EQVDGKGQAG SVSESARSEG RISPKSDITD   660
TGLAQSNNLQ VPSSSEPSSL KGSTSLLVHP VSGVRKEQGG GCHSDT

Seq ID NO:  652 DNA sequence
Nucleic Acid Accession #:  NM_014791.1
Coding sequence: 171..2126

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GCCGCGTCTC TCAGGACAGC AGGCCCCTGT CCTTCTGTCG GGCGCCGCTC AGCCGTGCCC   120
TCCGCCCCTC AGGTTCTTTT TCTAATTCCA AATAAACTTG CAAGAGGACT ATGAAAGATT   180
ATGATGAACT TCTCAAATAT TATGAATTAC ATGAAACTAT TGGGACAGGT GGCTTTGCAA   240
AGGTCAAACT TGCCTGCCAT ATCCTTACTG GAGAGATGGT AGCTATAAAA ATCATGGATA   300
AAAACACACT AGGGAGTGAT TTGCCCCGGA TCAAAACGGA GATTGAGGCC TTGAAGAACC   360
TGAGACATCA GCATATATGT CAACTCTACC ATGTGCTAGA GACAGCCAAC AAAATATTCA   420
TGGTTCTTGA GTACTGCCCT GGAGGAGAGC TGTTTGACTA TATAATTTCC CAGGATCGCC   480
TGTCAGAAGA GGAGACCCGG GTTGTCTTCC GTCAGATAGT ATCTGCTGTT GCTTATGTGC   540
ACAGCCAGGG CTATGCTCAC AGGGACCTCA AGCCAGAAAA TTTGCTGTTT GATGAATATC   600
ATAAATTAAA GCTGATTGAC TTTGGTCTCT GTGCAAAACC CAAGGGTAAC AAGGATTACC   660
ATCTACAGAC ATGCTGTGGG AGTCTGGCTT ATGCAGCACC TGAGTTAATA CAAGGCAAAT   720
CATATCTTGG ATCAGAGGCA GATGTTTGGA GCATGGGCAT ACTGTTATAT GTTCTTATGT   780
GTGGATTTCT ACCATTTGAT GATGATAATG TAATGGCTTT ATACAAGAAG ATTATGAGAG   840
GAAAATATGA TGTTCCCAAG TGGCTCTCTC CCAGTAGCAT TCTGCTTCTT CAACAAATGC   900
TGCAGGTGGA CCCAAAGAAA CGGATTTCTA TGAAAAATCT ATTGAACCAT CCCTGGATCA   960
TGCAAGATTA CAACTATCCT GTTGAGTGGC AAAGCAAGAA TCCTTTTATT CACCTCGATG  1020
ATGATTGCGT AACAGAACTT TCTGTACATC ACAGAAACAA CAGGCAAACA ATGGAGGATT  1080
TAATTTCACT GTGGCAGTAT GATCACCTCA CGGCTACCTA TCTTCTGCTT CTAGCCAAGA  1140
AGGCTCGGGG AAAACCAGTT CGTTTAAGGC TTTCTTCTTT CTCCTGTGGA CAAGCCAGTG  1200
CTACCCCATT CACAGACATC AAGTCAAATA ATTGGAGTCT GGAAGATGTG ACCGCAAGTG  1260
ATAAAAATTA TGTGGCGGGA TTAATAGACT ATGATTGGTG TGAAGATGAT TTATCAACAG  1320
GTGCTGCTAC TCCCCGAACA TCACAGTTTA CCAAGTACTG GACAGAATCA AATGGGGTGG  1380
AATCTAAATC ATTAACTCCA GCCTTATGCA GAACACCTGC AAATAAATTA AAGAACAAAG  1440
AAAATGTATA TACTCCTAAG TCTGCTGTAA AGAATGAAGA GTACTTTATG TTTCCTGAGC  1500
CAAAGACTCC AGTTAATAAG AACCAGCATA AGAGAGAAAT ACTCACTACG CCAAATCGTT  1560
ACACTACACC CTCAAAAGCT AGAAACCAGT GCCTGAAAGA AACTCCAATT AAAATACCAG  1620
TAAATTCAAC AGGAACAGAC AAGTTAATGA CAGGTGTCAT TAGCCCTGAG AGGCGGTGCC  1680
GCTCAGTGGA ATTGGATCTC AACCAAGCAC ATATGGAGGA GACTCCAAAA AGAAAGGGAG  1740
CCAAAGTGTT TGGGAGCCTT GAAAGGGGGT TGGATAAGGT TATCACTGTG CTCACCAGGA  1800
GCAAAAGGAA GGGTTCTGCC AGAGACGGGC CCAGAAGACT AAAGCTTCAC TATAATGTGA  1860
CTACAACTAG ATTAGTGAAT CCAGATCAAC TGTTGAATGA AATAATGTCT ATTCTTCCAA  1920
AGAAGCATGT TGACTTTGTA CAAAAGGGTT ATACACTGAA GTGTCAAACA CAGTCAGATT  1980
TTGGGAAAGT GACAATGCAA TTTGAATTAG AAGTGTGCCA GCTTCAAAAA CCCGATGTGG  2040
TGGGTATCAG GAGGCAGCGG CTTAAGGGCG ATGCCTGGGT TTACAAAAGA TTAGTGGAAG  2100
ACATCCTATC TAGCTGCAAG GTATAATTGA TGGATTCTTC CATCCTGCCG GATGAGTGTG  2160
GGTGTGATAC AGCCTACATA AAGACTGTTA TGATCGCTTT GATTTTAAAG TTCATTGGAA  2220
CTACCAACTT GTTTCTAAAG AGCTATCTTA AGACCAATAT CTCTTTGTTT TTAAACAAAA  2280
GATATTATTT TGTGTATGAA TCTAAATCAA GCCCATCTGT CATTATGTTA CTGTCTTTTT  2340
TAATCATGTG GTTTTGTATA TTAATAATTG TTGACTTTCT TAGATTCACT TCCATATGTG  2400
AATGTAAGCT CTTAACTATG TCTCTTTGTA ATGTGTAATT TCTTTCTGAA ATAAAACCAT  2460
TTGTGAATAT

Seq ID NO:  653 Protein sequence
Protein Accession #: NP_055606.1

1           11          21          31          41          51
|           |           |           |           |           |
MKDYDELLKY YELHETIGTG GFAKVKLACH ILTGEMVAIK IMDKNTLGSD LPRIKTEIEA    60
LKNLRHQHIC QLYHVLETAN KIFMVLEYCP GGELFDYIIS QDRLSEEETR VVFRQIVSAV   120
AYVHSQGYAH RDLKPENLLF DEYHKLKLID FGLCAKPKGN KDYHLQTCCG SLAYAAPELI   180
QGKSYLGSEA DVWSMGILLY VLMCGFLPFD DDNVMALYKK IMRGKYDVPK WLSPSSILLL   240
QQMLQVDPKK RISMKNLLNH PWIMQDYNYP VEWQSKNPFI HLDDDCVTEL SVHHRNNRQT   300
MEDLISLWQY DHLTATYLLL LAKKARGKPV RLRLSSFSCG QASATPFTDI KSNNWSLEDV   360
TASDKNYVAG LIDYDWCEDD LSTGAATPRT SQFTKYWTES NGVESKSLTP ALCRTPANKL   420
KNKENVYTPK SAVKNEEYFM FPEPKTPVNK NQHKREILTT PNRYTTPSKA RNQCLKETPI   480
KIPVNSTGTD KLMTGVISPE RRCRSVELDL NQAHMEETPK RKGAKVFGSL ERGLDKVITV   540
LTRSKRKGSA RDGPRRLKLH YNVTTTRLVN PDQLLNEIMS ILPKKHVDFV QKGYTLKCQT   600
QSDFGKVTMQ FELEVCQLQK PDVVGIRRQR LKGDAWVYKR LVEDILSSCK V

Seq ID NO:  654 DNA sequence
Nucleic Acid Accession #: NM_000582
Coding sequence: 88..990

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GCAGAGCACA GCATCGTCGG GACCAGACTC GTCTCAGGCC AGTTGCAGCC TTCTCAGCCA    60
AACGCCGACC AAGGAAAACT CACTACCATG AGAATTGCAG TGATTTGCTT TTGCCTCCTA   120
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GGCATCACCT GTGCCATACC AGTTAAACAG GCTGATTCTG GAAGTTCTGA GGAAAAGCAG   180
CTTTACAACA AATACCCAGA TGCTGTGGCC ACATGGCTAA ACCCTGACCC ATCTCAGAAG   240
CAGAATCTCC TAGCCCCACA GACCCTTCCA AGTAAGTCCA ACGAAAGCCA TGACCACATG   300
GATGATATGG ATGATGAAGA TGATGATGAC CATGTGGACA GCCAGGACTC CATTGACTCG   360
AACGACTCTG ATGATGTAGA TGACACTGAT GATTCTCACC AGTCTGATGA GTCTCACCAT   420
TCTGATGAAT CTGATGAACT GGTCACTGAT TTTCCCACGG ACCTGCCAGC AACCGAAGTT   480
TTCACTCCAG TTGTCCCCAC AGTAGACACA TATGATGGCC GAGGTGATAG TGTGGTTTAT   540
GGACTGAGGT CAAAATCTAA GAAGTTTCGC AGACCTGACA TCCAGTACCC TGATGCTACA   600
GACGAGGACA TCACCTCACA CATGGAAAGC GAGGAGTTGA ATGGTGCATA CAAGGCCATC   660
CCCGTTGCCC AGGACCTGAA CGCGCCTTCT GATTGGGACA GCCGTGGGAA GGACAGTTAT   720
GAAACGAGTC AGCTGGATGA CCAGAGTGCT GAAACCCACA GCCACAAGCA GTCCAGATTA   780
TATAAGCGGA AAGCCAATGA TGAGAGCAAT GAGCATTCCG ATGTGATTGA TAGTCAGGAA   840
CTTTCCAAAG TCAGCCGTGA ATTCCACAGC CATGAATTTC ACAGCCATGA AGATATGCTG   900
GTTGTAGACC CCAAAAGTAA GGAAGAAGAT AAACACCTGA AATTTCGTAT TTCTCATGAA   960
TTAGATAGTG CATCTTCTGA GGTCAATTAA AAGGAGAAAA AATACAATTT CTCACTTTGC  1020
ATTTAGTCAA AAGAAAAAAT GCTTTATAGC AAAATGAAAG AGAACATGAA ATGCTTCTTT  1080
CTCAGTTTAT TGGTTGAATG TGTATCTATT TGAGTCTGGA AATAACTAAT GTGTTTGATA  1140
ATTAGTTTAG TTTGTGGCTT CATGGAAACT CCCTGTAAAC TAAAAGCTTC AGGGTTATGT  1200
CTATGTTCAT TCTATAGAAG AAATGCAAAC TATCACTGTA TTTTAATATT TGTTATTCTC  1260
TCATGAATAG AAATTTATGT AGAAGCAAAC AAAATACTTT TACCCACTTA AAAAGAGAAT  1320
ATAACATTTT ATGTCACTAT AATCTTTTGT TTTTTAAGTT AGTGTATATT TTGTTGTGAT  1380
TATCTTTTTG TGGTGTGAAT AAATCTTTTA TCTTGAATGT AATAAGAATT TGGTGGTGTC  1440
AATTGCTTAT TTGTTTTCCC ACGGTTGTCC AGCAATTAAT AAAACATAAC CTTTTTTACT  1500
GCCTAAAAAA AAAAAAAAAA AAAA
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Seq ID NO: 655 Protein sequence
Protein Accession #: NP_000573

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1           11          21          31          41          51
|           |           |           |           |           |
MRIAVICFCL LGITCAIPVK QADSGSSEEK QLYNKYPDAV ATWLNPDPSQ KQNLLAPQTL    60
PSKSNESHDH MDDMDDEDDD DHVDSQDSID SNDSDDVDDT DDSHQSDESH HSDESDELVT   120
DFPTDLPATE VFTPVVPTVD TYDGRGDSVV YGLRSKSKKF RRPDIQYPDA TDEDITSHME   180
SEELNGAYKA IPVAQDLNAP SDWDSRGKDS YETSQLDDQS AETHSHKQSR LYKRKANDES   240
NEHSDVIDSQ ELSKVSREFH SHEFHSHEDM LVVDPKSKEE DKHLKFRISH ELDSASSEVN
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Seq ID NO: 656 DNA sequence
Nucleic Acid Accession #: NM_003108.1
Coding sequence: 76..1401

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1           11          21          31          41          51
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GGGGTGGGAG GGGGAGGGGG ACCTCCGCAC GAGACCCAGC GGCCCGGGTT GGAGCGTCCA    60
GCCCTGCAAC GGATCATGGT GCAGCAGGCG GAGAGCTTGG AAGCGGAGAG CAACCTGCCC   120
CGGGAGGCGC TGGACACGGA GGAGGGCGAA TTCATGGCTT GCAGCCCGGT GGCCCTGGAC   180
GAGAGCGACC CAGACTGGTG CAAGACGGCG TCGGGCCACA TCAAGCGGCC GATGAACGCG   240
TTCATGGTAT GGTCCAAGAT CGAACGCAGG AAGATCATGG AGCAGTCTCC GGACATGCAC   300
AACGCCGAGA TCTCCAAGAG GCTGGGCAAG CGCTGGAAAA TGCTGAAGGA CAGCGAGAAG   360
ATCCCGTTCA TCCGGGAGGC GGAGCGGCTG CGGCTCAAGC ACATGGCCGA CTACCCCGAC   420
TACAAGTACC GGCCCCGGAA AAAGCCCAAA ATGGACCCCT CGGCCAAGCC CAGCGCCAGC   480
CAGAGCCCAG AGAAGAGCGC GGCCGGCGGC GGCGGCGGGA GCGCGGGCGG AGGCGCGGGC   540
GGTGCCAAGA CCTCCAAGGG CTCCAGCAAG AAATGCGGCA AGCTCAAGGC CCCCGCGGCC   600
GCGGGCGCCA AGGCGGGCGC GGGCAAGGCG GCCCAGTCCG GGGACTACGG GGGCGCGGGC   660
GACGACTACG TGCTGGGCAG CCTGCGCGTG AGCGGCTCGG GCGGCGGCGG CGCGGGCAAG   720
ACGGTCAAGT GCGTGTTTCT GGATGAGGAC GACGACGACG ACGACGACGA CGACGAGCTG   780
CAGCTGCAGA TCAAACAGGA GCCGGACGAG GAGGACGAGG AACCACCGCA CCAGCAGCTC   840
CTGCAGCCGC CGGGGCAGCA GCCGTCGCAG CTGCTGAGAC GCTACAACGT CGCCAAAGTG   900
CCCGCCAGCC CTACGCTGAG CAGCTCGGCG GAGTCCCCCG AGGGAGCGAG CCTCTACGAC   960
GAGGTGCGGG CCGGCGCGAC CTCGGGCGCC GGGGGCGGCA GCCGCCTCTA CTACAGCTTC  1020
AAGAACATCA CCAAGCAGCA CCCGCCGCCG CTCGCGCAGC CCGCGCTGTC GCCCGCGTCC  1080
TCGCGCTCGG TGTCCACCTC CTCGTCCAGC AGCAGCGGCA GCAGCAGCGG CAGCAGCGGC  1140
GAGGACGCCG ACGACCTGAT GTTCGACCTG AGCTTGAATT TCTCTCAAAG CGCGCACAGC  1200
GCCAGCGAGC AGCAGCTGGG GGGCGGCGCG GCGGCCGGGA ACCTGTCCCT GTCGCTGGTG  1260
GATAAGGATT TGGATTCGTT CAGCGAGGGC AGCCTGGGCT CCCACTTCGA GTTCCCCGAC  1320
TACTGCACGC CGGAGCTGAG CGAGATGATC GCGGGGGACT GGCTGGAGGC GAACTTCTCC  1380
GACCTGGTGT TCACATATTG AAAGGCGCCC GCTGCTCGCT CTTTCTCTCG GAGGGTGCAG  1440
AGCTGGGTTC CTTGGGAGGA AGTTGTAGTG GTGATGATGA TGATGATGAT AATGATGATG  1500
ATGATGGTGG TGTTGATGGT GGCGGTGGTA GGGTGGAGGG GAGAGAAGAA GATGCTGATG  1560
ATATTGATAA GATGTCGTGA CGCAAAGAAA TTGGAAAACA TGATGAAAAT TTTGGTGGAG  1620
TTAAAGTGAA ATGAGTAGTT TTTAAACATT TTTCCTGTCC TTTTTTTGTC CCCCCTCCCT  1680
TCCTTTATCG TGTCTCAAGG TAGTTGCATA CCTAGTCTGG AGTTGTGATT ATTTTCCCAA  1740
AAAATGTGTT TTTGTAATTA CTATTTCTTT TTCCTGAAAT TCGTGATTGC AACAAAGGCA  1800
GAGGGGGCGG CGCGGCGGAG GGGAGGTAGG ACCCGCTCCG GAAGGCGCTG TTTGAAGCTT  1860
GTCGGTCTTT GAAGTCTGGA AGACGTCTGC AGAGGACCCT TTTGGCAGCA CAACTGTTAC  1920
TCTAGGGAGT TGGTGGAGAT ATTTTTTTTT CTTAAGAGAA CTTAAAGAAC TGGTGATTTT  1980
TTTTTAACAA AAAAAGGG
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Seq ID NO: 657 Protein sequence
Protein Accession #: NP_003099.1

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1           11          21          31          41          51
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MVQQAESLEA ESNLPREALD TEEGEFMACS PVALDESDPD WCKTASGHIK RPMNAFMVWS    60
KIERRKIMEQ SPDMHNAEIS KRLGKRWKML KDSEKIPFIR EAERLRLKHM ADYPDYKYRP   120
RKKPKMDPSA KPSASQSPEK SAAGGGGGSA GGGAGGAKTS KGSSKKCGKL KAPAAAGAKA   180
GAGKAAQSGD YGGAGDDYVL GSLRVSGSGG GGAGKTVKCV FLDEDDDDDD DDDELQLQIK   240
```

QEPDEEDEEP PHQQLLQPPG QQPSQLLRRY NVAKVPASPT LSSSAESPEG ASLYDEVRAG 300
ATSGAGGGSR LYYSFKNITK QHPPPLAQPA LSPASSRSVS TSSSSSSGSS SGSSGEDADD 360
LMFDLSLNFS QSAHSASEQQ LGGGAAAGNL SLSLVDKDLD SFSEGSLGSH FEFPDYCTPE 420
LSEMIAGDWL EANFSDLVFT Y

Seq ID NO: 658 DNA sequence
Nucleic Acid Accession #: NM_001719
Coding sequence: 123..1418

1 11 21 31 41 51

GGGCGCAGCG GGGCCCGTCT GCAGCAAGTG ACCGACGGCC GGGACGGCCG CCTGCCCCCT 60
CTGCCACCTG GGGCGGTGCG GGCCCGGAGC CCGGAGCCCG GGTAGCGCGT AGAGCCGGCG 120
CGATGCACGT GCGCTCACTG CGAGCTGCGG CGCCGCACAG CTTCGTGGCG CTCTGGGCAC 180
CCCTGTTCCT GCTGCGCTCC GCCCTGGCCG ACTTCAGCCT GGACAACGAG GTGCACTCGA 240
GCTTCATCCA CCGGCGCCTC CGCAGCCAGG AGCGGCGGGA GATGCAGCGC GAGATCCTCT 300
CCATTTTGGG CTTGCCCCAC CGCCCGCGCC CGCACCTCCA GGGCAAGCAC AACTCGGCAC 360
CCATGTTCAT GCTGGACCTG TACAACGCCA TGGCGGTGGA GGAGGGCGGC GGGCCCGGCG 420
GCCAGGGCTT CTCCTACCCC TACAAGGCCG TCTTCAGTAC CCAGGGCCCC CCTCTGGCCA 480
GCCTGCAAGA TAGCCATTTC CTCACCGACG CCGACATGGT CATGAGCTTC GTCAACCTCG 540
TGGAACATGA CAAGGAATTC TTCCACCCAC GCTACCACCA TCGAGAGTTC CGGTTTGATC 600
TTTCCAAGAT CCCAGAAGGG GAAGCTGTCA CGGCAGCCGA ATTCCGGATC TACAAGGACT 660
ACATCCGGGA ACGCTTCGAC AATGAGACGT TCCGGATCAG CGTTTATCAG GTGCTCCAGG 720
AGCACTTGGG CAGGGAATCG GATCTCTTCC TGCTCGACAG CCGTACCCTC TGGGCCTCGG 780
AGGAGGGCTG GCTGGTGTTT GACATCACAG CCACCAGCAA CCACTGGGTG GTCAATCCGC 840
GGCACAACCT GGGCCTGCAG CTCTCGGTGG AGACGCTGGA TGGGCAGAGC ATCAACCCCA 900
AGTTGGCGGG CCTGATTGGG CGGCACGGGC CCCAGAACAA GCAGCCCTTC ATGGTGGCTT 960
TCTTCAAGGC CACGGAGGTC CACTTCCGCA GCATCCGGTC CACGGGGAGC AAACAGCGCA 1020
GCCAGAACCG CTCCAAGACG CCCAAGAACC AGGAAGCCCT GCGGATGGCC AACGTGGCAG 1080
AGAACAGCAG CAGCGACCAG AGGCAGGCCT GTAAGAAGCA CGAGCTGTAT GTCAGCTTCC 1140
GAGACCTGGG CTGGCAGGAC TGGATCATCG CGCCTGAAGG CTACGCCGCC TACTACTGTG 1200
AGGGGGAGTG TGCCTTCCCT CTGAACTCCT ACATGAACGC CACCAACCAC GCCATCGTGC 1260
AGACGCTGGT CCACTTCATC AACCCGGAAA CGGTGCCCAA GCCCTGCTGT GCGCCCACGC 1320
AGCTCAATGC CATCTCCGTC CTCTACTTCG ATGACAGCTC CAACGTCATC CTGAAGAAAT 1380
ACAGAAACAT GGTGGTCCGG GCCTGTGGCT GCCACTAGCT CCTCCGAGAA TTCAGACCCT 1440
TTGGGGCCAA GTTTTTCTGG ATCCTCCATT GCTCGCCTTG GCCAGGAACC AGCAGACCAA 1500
CTGCCTTTTG TGAGACCTTC CCCTCCCTAT CCCCAACTTT AAAGGTGTGA GAGTATTAGG 1560
AAACATGAGC AGCATATGGC TTTTGATCAG TTTTTCAGTG GCAGCATCCA ATGAACAAGA 1620
TCCTACAAGC TGTGCAGGCA AAACCTAGCA GGAAAAAAAA ACAACGCATA AAGAAAAATG 1680
GCCGGGCCAG GTCATTGGCT GGGAAGTCTC AGCCATGCAC GGACTCGTTT CCAGAGGTAA 1740
TTATGAGCGC CTACCAGCCA GGCCACCCAG CCGTGGGAGG AAGGGGGCGT GGCAAGGGGT 1800
GGGCACATTG GTGTCTGTGC GAAAGGAAAA TTGACCCGGA AGTTCCTGTA ATAAATGTCA 1860
CAATAAAACG AATGAATG

Seq ID NO: 659 Protein sequence
Protein Accession #: NP_001710

1 11 21 31 41 51

MHVRSLRAAA PHSFVALWAP LFLLRSALAD FSLDNEVHSS FIHRRLRSQE RREMQREILS 60
ILGLPHRPRP HLQGKHNSAP MFMLDLYNAM AVEEGGGPGG QGFSYPYKAV FSTQGPPLAS 120
LQDSHFLTDA DMVMSFVNLV EHDKEFFHPR YHHREFRFDL SKIPEGEAVT AAEFRIYKDY 180
IRERFDNETF RISVYQVLQE HLGRESDLFL LDSRTLWASE EGWLVFDITA TSNHWVVNPR 240
HNLGLQLSVE TLDGQSINPK LAGLIGRHGP QNKQPFMVAF FKATEVHFRS IRSTGSKQRS 300
QNRSKTPKNQ EALRMANVAE NSSSDQRQAC KKHELYVSFR DLGWQDWIIA PEGYAAYYCE 360
GECAFPLNSY MNATNHAIVQ TLVHFINPET VPKPCCAPTQ LNAISVLYFD DSSNVILKKY 420
RNMVVRACGC H

Seq ID NO: 660 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 211..1895

1 11 21 31 41 51

GGATCTGAGG GGCGCCCAGT CACTTCCTCC ACGTTCTCGT GCTGGGCGGG AGGAGCGGAT 60
GGGGCTTGGG AGGCAGCCTG CTCTCCAGTC CCTATCCACC CACAGGTTTT TTGGGTCGGA 120
GAGGAATTAT CTGATAAAAT TCCTGGGTTA ATATTTTTAA AAACGGAGAG TTTTTAAAAA 180
TGATTTTTTT CCCTCGAAAA TGACCTTTTT ATGCTTCGAA GCAGTTTGTC AACCAGCATA 240
GTGCTTTTTC TTTTCTCTTC TTTTTCTACG ATAAATGAAA GCATTTCTTC AAGAAAAAGG 300
CACAGGTTCC TTGAACAGCT GGATTCTGAT GGCACCATTA CTATAGAGGA GCAGATTGTC 360
CTTGTGCTGA AAGCGAAAGT ACAATGTGAA CTCAACATCA CAGCTCAACT CCAGGAGGGA 420
GAAGGTAATT GTTTCCCTGA ATGGGATGGA CTCATTTGTT GGCCCAGAGG AACAGTGGGG 480
AAAATATCGG CTGTTCCATG CCCTCCTTAT ATTTATGACT TCAACCATAA AGGAGTTGCT 540
TTCCGACACT GTAACCCCAA TGGAACATGG GATTTTATGC ACAGCTTAAA TAAAACATGG 600
GCCAATTATT CAGACTGCCT TCGCTTTCTG CAGCCAGATA TCAGCATAGG AAAGCAAGAA 660
TTCTTTGAAC GCCTCTATGT AATGTATACC GTTGGCTACT CCATCTCTTT TGGTTCCTTG 720
GCTGTGGCTA TTCTCATCAT TGGTTACTTC AGACGATTGC ATTGCACTAG GAACTATATC 780
CACATGCACT TATTTGTGTC TTTCATGCTG AGAGCTACAA GCATCTTTGT CAAAGACAGA 840
GTAGTCCATG CTCACATAGG AGTAAAGGAG CTGGAGTCCC TAATAATGCA GGATGACCCA 900
CAAAATTCCA TTGAGGCAAC TTCTGTGGAC AAATCACAAT ATATCGGGTG CAAGATTGCT 960
GTTGTGATGT TTATTTACTT CCTGGCTACA AATTATTATT GGATCCTGGT GGAAGGTCTC 1020
TACCTGCATA ATCTCATCTT TGTGGCTTTC TTTTCGGACA CCAAATACCT GTGGGGCTTC 1080
ATCTTGATAG GCTGGGGGTT TCCAGCAGCA TTTGTTGCAG CATGGGCTGT GGCACGAGCA 1140
ACTCTGGCTG ATGCGAGGTG CTGGGAACTT AGTGCTGGAG ACATCAAGTG GATTTATCAA 1200
GCACCGATCT TAGCAGCTAT TGGGCTGAAT TTTATTCTGT TTCTGAATAC GGTTAGAGTT 1260
CTAGCTACCA AAATCTGGGA GACCAATGCA GTTGGGCATG ACACAAGGAA GCAATACAGG 1320
AAACTGGCCA AATCGACACT GGTCCTGGTC CTAGTCTTTG GAGTGCATTA CATCGTGTTC 1380

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GTATGCCTGC CTCACTCCTT CACTGGGCTC GGGTGGGAGA TCCGCATGCA CTGTGAGCTC  1440
TTCTTCAACT CCTTTCAGGG TTTCTTTGTG TCTATCATCT ACTGCTACTG CAATGGAGAG  1500
GTTCAGGCAG AGGTGAAGAA GATGTGGAGT CGGTGGAATC TCTCCGTGGA CTGGAAAAGG  1560
ACACCGCCAT GTGGCAGCCG CAGATGCGGC TCAGTGCTCA CCACCGTGAC GCACAGCACC  1620
AGCAGCCAGT CACAGGTGGC GGCCAGCACA CGCATGGTGC TTATCTCTGG CAAAGCTGCC  1680
AAGATCGCCA GCAGACAGCC TGACAGCCAC ATCACTTTAC CTGGCTATGT CTGGAGTAAC  1740
TCAGAGCAGG ACTGCCTGCC ACACTCTTTC CACGAGGAGA CCAAGGAAGA TAGTGGGAGG  1800
CAGGGAGATG ATATTCTAAT GGAGAAGCCT TCCAGGCCTA TGGAATCTAA CCCAGACACT  1860
GAAGGATGCC AAGGAGAAAC TGAGGATGTT CTCTGA
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Seq ID NO: 661 Protein sequence
Protein Accession #: Eos sequence

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1           11          21          31          41          51
|           |           |           |           |           |
MLRSSLSTSI VLFLFSSFST INESISSRKR HRFLEQLDSD GTITIEEQIV LVLKAKVQCE    60
LNITAQLQEG EGNCFPEWDG LICWPRGTVG KISAVPCPPY IYDFNHKGVA FRHCNPNGTW   120
DFMHSLNKTW ANYSDCLRFL QPDISIGKQE FFERLYVMYT VGYSISFGSL AVAILIIGYF   180
RRLHCTRNYI HMHLFVSFML RATSIFVKDR VVHAHIGVKE LESLIMQDDP QNSIEATSVD   240
KSQYIGCKIA VVMFIYFLAT NYYWILVEGL YLHNLIFVAF FSDTKYLWGF ILIGWGFPAA   300
FVAAWAVARA TLADARCWEL SAGDIKWIYQ APILAAIGLN FILFLNTVRV LATKIWETNA   360
VGHDTRKQYR KLAKSTLVLV LVFGVHYIVF VCLPHSFTGL GWEIRMHCEL FFNSFQGFFV   420
SIIYCYCNGE VQAEVKKMWS RWNLSVDWKR TPPCGSRRCG SVLTTVTHST SSQSQVAAST   480
RMVLISGKAA KIASRQPDSH ITLPGYVWSN SEQDCLPHSF HEETKEDSGR QGDDILMEKP   540
SRPMESNPDT EGCQGETEDV L
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Seq ID NO: 662 DNA sequence
Nucleic Acid Accession #: NM_005048
Coding sequence: 143..1795

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TGGGCCAGCC AAGTTGGCAA CTTGGAAGCT TCTCCCGGGC TCTGGAGGAG GGTCCCTGCT   120
TCTTCCTACA GCCGTTCCGG GCATGGCCGG GCTGGGGGCG TCGCTCCACG TCTGGGGTTG   180
GCTAATGCTC GGCAGCTGCC TCCTGGCCAG AGCCCAGCTG GATTCTGATG GCACCATTAC   240
TATAGAGGAG CAGATTGTCC TTGTGCTGAA AGCGAAAGTA CAATGTGAAC TCAACATCAC   300
AGCTCAACTC CAGGAGGGAG AAGGTAATTG TTTCCCTGAA TGGGATGGAC TCATTTGTTG   360
GCCCAGAGGA ACAGTGGGGA AAATATCGGC TGTTCCATGC CCTCCTTATA TTTATGACTT   420
CAACCATAAA GGAGTTGCTT TCCGACACTG TAACCCCAAT GGAACATGGG ATTTTATGCA   480
CAGCTTAAAT AAAACATGGG CCAATTATTC AGACTGCCTT CGCTTTCTGC AGCCAGATAT   540
CAGCATAGGA AAGCAAGAAT TCTTTGAACG CCTCTATGTA ATGTATACCG TTGGCTACTC   600
CATCTCTTTT GGTTCCTTGG CTGTGGCTAT TCTCATCATT GGTTACTTCA GACGATTGCA   660
TTGCACTAGG AACTATATCC ACATGCACTT ATTTGTGTCT TTCATGCTGA GAGCTACAAG   720
CATCTTTGTC AAAGACAGAG TAGTCCATGC TCACATAGGA GTAAAGGAGC TGGAGTCCCT   780
AATAATGCAG GATGACCCAC AAAATTCCAT TGAGGCAACT TCTGTGGACA AATCACAATA   840
TATCGGGTGC AAGATTGCTG TTGTGATGTT TATTTACTTC CTGGCTACAA ATTATTATTG   900
GATCCTGGTG GAAGGTCTCT ACCTGCATAA TCTCATCTTT GTGGCTTTCT TTTCGGACAC   960
CAAATACCTG TGGGGCTTCA TCTTGATAGG CTGGGGGTTT CCAGCAGCAT TTGTTGCAGC  1020
ATGGGCTGTG GCACGAGCAA CTCTGGCTGA TGCGAGGTGC TGGGAACTTA GTGCTGGAGA  1080
CATCAAGTGG ATTTATCAAG CACCGATCTT AGCAGCTATT GGGCTGAATT TTATTCTGTT  1140
TCTGAATACG GTTAGAGTTC TAGCTACCAA AATCTGGGAG ACCAATGCAG TTGGGCATGA  1200
CACAAGGAAG CAATACAGGA AACTGGCCAA ATCGACACTG GTCCTGGTCC TAGTCTTTGG  1260
AGTGCATTAC ATCGTGTTCG TATGCCTGCC TCACTCCTTC ACTGGGCTCG GGTGGGAGAT  1320
CCGCATGCAC TGTGAGCTCT TCTTCAACTC CTTTCAGGGT TTCTTTGTGT CTATCATCTA  1380
CTGCTACTGC AATGGAGAGG TTCAGGCAGA GGTGAAGAAG ATGTGGAGTC GGTGGAATCT  1440
CTCCGTGGAC TGGAAAAGGA CACCGCCATG TGGCAGCCGC AGATGCGGCT CAGTGCTCAC  1500
CACCGTGACG CACAGCACCA GCAGCCAGTC ACAGGTGGCG GCCAGCACAC GCATGGTGCT  1560
TATCTCTGGC AAAGCTGCCA AGATCGCCAG CAGACAGCCT GACAGCCACA TCACTTTACC  1620
TGGCTATGTC TGGAGTAACT CAGAGCAGGA CTGCCTGCCA CACTCTTTCC ACGAGGAGAC  1680
CAAGGAAGAT AGTGGGAGGC AGGGAGATGA TATTCTAATG GAGAAGCCTT CCAGGCCTAT  1740
GGAATCTAAC CCAGACACTG AAGGATGCCA AGGAGAAACT GAGGATGTTC TCTGAATGGA  1800
CATTTGTGGC TGACTTTCAT GGGCTGGTCC AATGGCTGGT TGTGTGAGAG GGCTTGGCTG  1860
ATACTCCTAT GCTTGAGTTC AAAGGCTGAA AATTCAGTTA AGGTGTTACT TAATAATAGT  1920
TTTTAGGCTC CATGAATTGG CTCCTGTAAA TACTAACGAC ATGAAAATGC AAGTGTCAAT  1980
GGAGTAGTTT ATTACCTTCT ATTGGCATCA AGTTTTCCTC TAAATTAATG TATGGTATTT  2040
GCTCTGTGAT TGTTCATTTT TTTCTGCTAC TTTTGGGTAG AAAAAAGATT CAATTGCTTG  2100
GCTGTAGCTT TCTCTCATAT ATATCACCCT AAATATAATG AAGATCTTTT AGTGTGTATC  2160
ATTTTCCTTT TAGAAACTAG TATTCTCTTA TTTCTTACTT TAATGTACTT CTATCACTGC  2220
ATTTATTTTG CCTGTGCATA GGAGCAATTA GGATCTAAAA AAATATATGG GAAGATAAAA  2280
GATCTAAGAA CAAGTACTTG CTGGAAAATT AGTTGGCTGG ACATTGATAA AATAATGCAT  2340
TTATAACAAT TACATGTGTT TTTGGGAACA AGGAAAATTT CTCAAAAAAG AATATTTCAC  2400
ACATCCCTTC TTTTGAATGG CCTCTTTGTG ACCAGCCAGA CCTCAGGTCT TCACTCTTTC  2460
TTCTTTGTAA ACCATGTCAT GTGGAAAGAT TTCCTCAGTT AGTGAGCTTG TGTCTGCAAA  2520
TTGATTTTGT TTGTAATGTA TTTTGATAGC AAATCATGCT GCATCTATAT CTTTTTCTTG  2580
TTTGAGCTGT TACTACATTG TACATGGCAT GTGGGATCAA TTAAAAATTT GTTTTAAAAA  2640
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Seq ID NO: 663 Protein sequence
Protein Accession #: NP_005039

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1           11          21          31          41          51
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MAGLGASLHV WGWLMLGSCL LARAQLDSDG TITIEEQIVL VLKAKVQCEL NITAQLQEGE    60
GNCFPEWDGL ICWPRGTVGK ISAVPCPPYI YDFNHKGVAF RHCNPNGTWD FMHSLNKTWA   120
NYSDCLRFLQ PDISIGKQEF FERLYVMYTV GYSISFGSLA VAILIIGYFR RLHCTRNYIH   180
MHLFVSFMLR ATSIFVKDRV VHAHIGVKEL ESLIMQDDPQ NSIEATSVDK SQYIGCKIAV   240
```

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VMFIYFLATN YYWILVEGLY LHNLIFVAFF SDTKYLWGFI LIGWGFPAAF VAAWAVARAT   300
LADARCWELS AGDIKWIYQA PILAAIGLNF ILFLNTVRVL ATKIWETNAV GHDTRKQYRK   360
LAKSTLVLVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSFQGFFVS IIYCYCNGEV   420
QAEVKKMWSR WNLSVDWKRT PPCGSRRCGS VLTTVTHSTS SQSQVAASTR MVLISGKAAK   480
IASRQPDSHI TLPGYVWSNS EQDCLPHSFH EETKEDSGRQ GDDILMEKPS RPMESNPDTE   540
GCQGETEDVL
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Seq ID NO: 664 DNA sequence
Nucleic Acid Accession #: NM_012152
Coding sequence: 43..1104

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1           11          21          31          41          51
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CTTCTTTAAA TTTCTTTCTA GGATGTTCAC TTCTTCTCCA CAATGAATGA GTGTCACTAT    60
GACAAGCACA TGGACTTTTT TTATAATAGG AGCAACACTG ATACTGTCGA TGACTGGACA   120
GGAACAAAGC TTGTGATTGT TTTGTGTGTT GGGACGTTTT TCTGCCTGTT TATTTTTTTT   180
TCTAATTCTC TGGTCATCGC GGCAGTGATC AAAAACAGAA AATTTCATTT CCCCTTCTAC   240
TACCTGTTGG CTAATTTAGC TGCTGCCGAT TTCTTCGCTG GAATTGCCTA TGTATTCCTG   300
ATGTTTAACA CAGGCCCAGT TTCAAAAACT TTGACTGTCA ACCGCTGGTT TCTCCGTCAG   360
GGGCTTCTGG ACAGTAGCTT GACTGCTTCC CTCACCAACT TGCTGGTTAT CGCCGTGGAG   420
AGGCACATGT CAATCATGAG GATGCGGGTC CATAGCAACC TGACCAAAAA GAGGGTGACA   480
CTGCTCATTT TGCTTGTCTG GGCCATCGCC ATTTTTATGG GGGCGGTCCC CACACTGGGC   540
TGGAATTGCC TCTGCAACAT CTCTGCCTGC TCTTCCCTGG CCCCCATTTA CAGCAGGAGT   600
TACCTTGTTT TCTGGACAGT GTCCAACCTC ATGGCCTTCC TCATCATGGT TGTGGTGTAC   660
CTGCGGATCT ACGTGTACGT CAAGAGGAAA ACCAACGTCT TGTCTCCGCA TACAAGTGGG   720
TCCATCAGCC GCCGGAGGAC ACCCATGAAG CTAATGAAGA CGGTGATGAC TGTCTTAGGG   780
GCGTTTGTGG TATGCTGGAC CCCGGGCCTG GTGGTTCTGC TCCTCGACGG CCTGAACTGC   840
AGGCAGTGTG GCGTGCAGCA TGTGAAAAGG TGGTTCCTGC TGCTGGCGCT GCTCAACTCC   900
GTCGTGAACC CCATCATCTA CTCCTACAAG GACGAGGACA TGTATGGCAC CATGAAGAAG   960
ATGATCTGCT GCTTCTCTCA GGAGAACCCA GAGAGGCGTC CCTCTCGCAT CCCCTCCACA  1020
GTCCTCAGCA GGAGTGACAC AGGCAGCCAG TACATAGAGG ATAGTATTAG CCAAGGTGCA  1080
GTCTGCAATA AAAGCACTTC CTAAACTCTG GATGCCTCTC GGCCCACCCA GGTGATGACT  1140
GTCTTAGG
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Seq ID NO: 665 Protein sequence
Protein Accession #: NP_036284

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1           11          21          31          41          51
|           |           |           |           |           |
MNECHYDKHM DFFYNRSNTD TVDDWTGTKL VIVLCVGTFF CLFIFFSNSL VIAAVIKNRK    60
FHFPFYYLLA NLAAADFFAG IAYVFLMFNT GPVSKTLTVN RWFLRQGLLD SSLTASLTNL   120
LVIAVERHMS IMRMRVHSNL TKKRVTLLIL LVWAIAIFMG AVPTLGWNCL CNISACSSLA   180
PIYSRSYLVF WTVSNLMAFL IMVVVYLRIY VYVKRKTNVL SPHTSGSISR RRTPMKLMKT   240
VMTVLGAFVV CWTPGLVVLL LDGLNCRQCG VQHVKRWFLL LALLNSVVNP IIYSYKDEDM   300
YGTMKKMICC FSQENPERRP SRIPSTVLSR SDTGSQYIED SISQGAVCNK STS
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Seq ID NO: 666 DNA sequence
Nucleic Acid Accession #: NM_002821
Coding sequence: 150..3362

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1           11          21          31          41          51
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GCGCTCCGGT GCGTCCGCCT CCTGTGCCCG CCGCGGAGCA GTCTGCGGCC CGCCGTGCGC   120
CCTCAGCTCC TTTTCCTGAG CCCGCCGCGA TGGGAGCTGC GCGGGGATCC CCGGCCAGAC   180
CCCGCCGGTT GCCTCTGCTC AGCGTCCTGC TGCTGCCGCT GCTGGGCGGT ACCCAGACAG   240
CCATTGTCTT CATCAAGCAG CCGTCCTCCC AGGATGCACT GCAGGGGCGC CGGGCGCTGC   300
TTCGCTGTGA GGTTGAGGCT CCGGGCCCGG TACATGTGTA CTGGCTGCTC GATGGGGCCC   360
CTGTCCAGGA CACGGAGCGG CGTTTCGCCC AGGGCAGCAG CCTGAGCTTT GCAGCTGTGG   420
ACCGGCTGCA GGACTCTGGC ACCTTCCAGT GTGTGGCTCG GGATGATGTC ACTGGAGAAG   480
AAGCCCGCAG TGCCAACGCC TCCTTCAACA TCAAATGGAT TGAGGCAGGT CCTGTGGTCC   540
TGAAGCATCC AGCCTCGGAA GCTGAGATCC AGCCACAGAC CCAGGTCACA CTTCGTTGCC   600
ACATTGATGG GCACCCTCGG CCCACCTACC AATGGTTCCG AGATGGGACC CCCCTTTCTG   660
ATGGTCAGAG CAACCACACA GTCAGCAGCA AGGAGCGGAA CCTGACGCTC CGGCCAGCTG   720
GTCCTGAGCA TAGTGGGCTG TATTCCTGCT GCGCCCACAG TGCTTTTGGC CAGGCTTGCA   780
GCAGCCAGAA CTTCACCTTG AGCATTGCTG ATGAAAGCTT TGCCAGGGTG GTGCTGGCAC   840
CCCAGGACGT GGTAGTAGCG AGGTATGAGG AGGCCATGTT CCATTGCCAG TTCTCAGCCC   900
AGCCACCCCC GAGCCTGCAG TGGCTCTTTG AGGATGAGAC TCCCATCACT AACCGCAGTC   960
GCCCCCCACA CCTCCGCAGA GCCACAGTGT TTGCCAACGG GTCTCTGCTG CTGACCCAGG  1020
TCCGGCCACG CAATGCAGGG ATCTACCGCT GCATTGGCCA GGGGCAGAGG GGCCCACCCA  1080
TCATCCTGGA AGCCACACTT CACCTAGCAG AGATTGAAGA CATGCCGCTA TTTGAGCCAC  1140
GGGTGTTTAC AGCTGGCAGC GAGGAGCGTG TGACCTGCCT TCCCCCCAAG GGTCTGCCAG  1200
AGCCCAGCGT GTGGTGGGAG CACGCGGGAG TCCGGCTGCC CACCCATGGC AGGGTCTACC  1260
AGAAGGGCCA CGAGCTGGTG TTGGCCAATA TTGCTGAAAG TGATGCTGGT GTCTACACCT  1320
GCCACGCGGC CAACCTGGCT GGTCAGCGGA GACAGGATGT CAACATCACT GTGGCCACTG  1380
TGCCCTCCTG GCTGAAGAAG CCCCAAGACA GCCAGCTGGA GGAGGGCAAA CCCGGCTACT  1440
TGGATTGCCT GACCCAGGCC ACACCAAAAC CTACAGTTGT CTGGTACAGA AACCAGATGC  1500
TCATCTCAGA GGACTCACGG TTCGAGGTCT TCAAGAATGG GACCTTGCGC ATCAACAGCG  1560
TGGAGGTGTA TGATGGGACA TGGTACCGTT GTATGAGCAG CACCCCAGCC GGCAGCATCG  1620
AGGCGCAAGC CCGTGTCCAA GTGCTGGAAA AGCTCAAGTT CACACCACCA CCCCAGCCAC  1680
AGCAGTGCAT GGAGTTTGAC AAGGAGGCCA CGGTGCCCTG TTCAGCCACA GGCCGAGAGA  1740
AGCCCACTAT TAAGTGGGAA CGGGCAGATG GGAGCAGCCT CCCAGAGTGG GTGACAGACA  1800
ACGCTGGGAC CCTGCATTTT GCCCGGGTGA CTCGAGATGA CGCTGGCAAC TACACTTGCA  1860
TTGCCTCCAA CGGGCCGCAG GGCCAGATTC GTGCCCATGT CCAGCTCACT GTGGCAGTTT  1920
TTATCACCTT CAAAGTGGAA CCAGAGCGTA CGACTGTGTA CCAGGGCCAC ACAGCCCTAC  1980
TGCAGTGCGA GGCCCAGGGG GACCCCAAGC CGCTGATTCA GTGGAAAGGC AAGGACCGCA  2040
TCCTGGACCC CACCAAGCTG GGACCCAGGA TGCACATCTT CCAGAATGGC TCCCTGGTGA  2100
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TCCATGACGT GGCCCCTGAG GACTCAGGCC GCTACACCTG CATTGCAGGC AACAGCTGCA  2160
ACATCAAGCA CACGGAGGCC CCCCTCTATG TCGTGGACAA GCCTGTGCCG GAGGAGTCGG  2220
AGGGCCCTGG CAGCCCTCCC CCCTACAAGA TGATCCAGAC CATTGGGTTG TCGGTGGGTG  2280
CCGCTGTGGC CTACATCATT GCCGTGCTGG GCCTCATGTT CTACTGCAAG AAGCGCTGCA  2340
AAGCCAAGCG GCTGCAGAAG CAGCCCGAGG GCGAGGAGCC AGAGATGGAA TGCCTCAACG  2400
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GCTTGGGCTC CGGCCCCGCG GCCACCAACA AACGCCACAG CACAAGTGAT AAGATGCACT  2520
TCCCACGGTC TAGCCTGCAG CCCATCACCA CGCTGGGGAA GAGTGAGTTT GGGGAGGTGT  2580
TCCTGGCAAA GGCTCAGGGC TTGGAGGAGG GAGTGGCAGA GACCCTGGTA CTTGTGAAGA  2640
GCCTGCAGAC GAAGGATGAG CAGCAGCAGC TGGACTTCCG GAGGGAGTTG GAGATGTTTG  2700
GGAAGCTGAA CCACGCCAAC GTGGTGCGGC TCCTGGGGCT GTGCCGGGAG GCTGAGCCCC  2760
ACTACATGGT GCTGGAATAT GTGGATCTGG GAGACCTCAA GCAGTTCCTG AGGATTTCCA  2820
AGAGCAAGGA TGAAAAATTG AAGTCACAGC CCCTCAGCAC CAAGCAGAAG GTGGCCCTAT  2880
GCACCCAGGT AGCCCTGGGC ATGGAGCACC TGTCCAACAA CCGCTTTGTG CATAAGGACT  2940
TGGCTGCGCG TAACTGCCTG GTCAGTGCCC AGAGACAAGT GAAGGTGTCT GCCCTGGGCC  3000
TCAGCAAGGA TGTGTACAAC AGTGAGTACT ACCACTTCCG CCAGGCCTGG GTGCCGCTGC  3060
GCTGGATGTC CCCCGAGGCC ATCCTGGAGG GTGACTTCTC TACCAAGTCT GATGTCTGGG  3120
CCTTCGGTGT GCTGATGTGG GAAGTGTTTA CACATGGAGA GATGCCCCAT GGTGGGCAGG  3180
CAGATGATGA AGTACTGGCA GATTTGCAGG CTGGGAAGGC TAGACTTCCT CAGCCCGAGG  3240
GCTGCCCTTC CAAACTCTAT CGGCTGATGC AGCGCTGCTG GGCCCTCAGC CCCAAGGACC  3300
GGCCCTCCTT CAGTGAGATT GCCAGCGCCC TGGGAGACAG CACCGTGGAC AGCAAGCCGT  3360
GAGGAGGGAG CCCGCTCAGG ATGGCCTGGG CAGGGGAGGA CATCTCTAGA GGGAAGCTCA  3420
CAGCATGATG GGCAAGATCC CTGTCCTCCT GGGCCCTGAG GTGCCCTAGT GCAACAGGCA  3480
TTGCTGAGGT CTGAGCAGGG CCTGGCCTTT CCTCCTCTTC CTCACCCTCA TCCTTTGGGA  3540
GGCTGACTTG GACCCAAACT GGGCGACTAG GGCTTTGAGC TGGGCAGTTT CCCCTGCCAC  3600
CTCTTCCTCT ATCAGGGACA GTGTGGGTGC CACAGGTAAC CCCAATTTCT GGCCTTCAAC  3660
TTCTCCCCTT GACCGGGTCC AACTCTGCCA CTCATCTGCC AACTTTGCCT GGGGAGGGCT  3720
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AGGGTTAATG AGTCTCTTGC CCACTGGTCC ACTTGGGGGT CTAGACCAGG ATTATAGAGG  3840
ACACAGCAAG TGAGTCCTCC CCACTCTGGG CTTGTGCACA CTGACCCAGA CCCACGTCTT  3900
CCCCACCCTT CTCTCCTTTC CTCATCCTAA GTGCCTGGCA GATGAAGGAG TTTTCAGGAG  3960
CTTTTGACAC TATATAAACC GCCCTTTTTG TATGCACCAC GGGCGGCTTT TATATGTAAT  4020
TGCAGCGTGG GGTGGGTGGG CATGGGAGGT AGGGGTGGGC CCTGGAGATG AGGAGGGTGG  4080
GCCATCCTTA CCCCACACTT TTATTGTTGT CGTTTTTTGT TTGTTTTGTT TTTTTGTTTT  4140
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Seq ID NO: 667 Protein sequence
Protein Accession #: NP_002812

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1          11         21         31         41         51
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VHVYWLLDGA PVQDTERRFA QGSSLSFAAV DRLQDSGTFQ CVARDDVTGE EARSANASFN   120
IKWIEAGPVV LKHPASEAEI QPQTQVTLRC HIDGHPRPTY QWFRDGTPLS DGQSNHTVSS   180
KERNLTLRPA GPEHSGLYSC CAHSAFGQAC SSQNFTLSIA DESFARVVLA PQDVVVARYE   240
EAMFHCQFSA QPPPSLQWLF EDETPITNRS RPPHLRRATV FANGSLLLTQ VRPRNAGIYR   300
CIGQGQRGPP IILEATLHLA EIEDMPLFEP RVFTAGSEER VTCLPPKGLP EPSVWWEHAG   360
VRLPTHGRVY QKGHELVLAN IAESDAGVYT CHAANLAGQR RQDVNITVAT VPSWLKKPQD   420
SQLEEGKPGY LDCLTQATPK PTVVWYRNQM LISEDSRFEV FKNGTLRINS VEVYDGTWYR   480
CMSSTPAGSI EAQARVQVLE KLKFTPPPQP QQCMEFDKEA TVPCSATGRE KPTIKWERAD   540
GSSLPEWVTD NAGTLHFARV TRDDAGNYTC IASNGPQGQI RAHVQLTVAV FITFKVEPER   600
TTVYQGHTAL LQCEAQGDPK PLIQWKGKDR ILDPTKLGPR MHIFQNGSLV IHDVAPEDSG   660
RYTCIAGNSC NIKHTEAPLY VVDKPVPEES EGPGSPPPYK MIQTIGLSVG AAVAYIIAVL   720
GLMFYCKKRC KAKRLQKQPE GEEPEMECLN GGPLQNGQPS AEIQEEVALT SLGSGPAATN   780
KRHSTSDKMH FPRSSLQPIT TLGKSEFGEV FLAKAQGLEE GVAETLVLVK SLQTKDEQQQ   840
LDFRRELEMF GKLNHANVVR LLGLCREAEP HYMVLEYVDL GDLKQFLRIS KSKDEKLKSQ   900
PLSTKQKVAL CTQVALGMEH LSNNRFVHKD LAARNCLVSA QRQVKVSALG LSKDVYNSEY   960
YHFRQAWVPL RWMSPEAILE GDFSTKSDVW AFGVLMWEVF THGEMPHGGQ ADDEVLADLQ  1020
AGKARLPQPE GCPSKLYRLM QRCWALSPKD RPSFSEIASA LGDSTVDSKP
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Seq ID NO: 668 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1389

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ACCCTTGTTT CTGAACATGA GTATAAAGAG AAAACCTGTC AGTCTGCTGC TCTTTTTAAT   120
GTTGTCAACT CGATTATAGG ATCTGGTATA ATAGGATTGC CTTATTCAAT GAAGCAAGCT   180
GGGTTTCCTT TGGGAATATT GCTTTTATTC TGGGTTTCAT ATGTTACGGA CTTTTCCCTT   240
GTTTTATTGA TAAAAGGAGG GGCCCTCTCT GGAACAGATA CCTACCAGTC TTTGGTCAAT   300
AAAACTTTCG GCTTTCCAGG GTATCTGCTC CTCTCTGTTC TTCAGTTTTT GTATCCTTTT   360
ATAGCAATGA TAAGTTACAA TATAATAGCT GGAGATACTT TGAGCAAAGT TTTTCAAAGA   420
ATCCCAGGAG TTGATCCTGA AAACGTGTTT ATTGGTCGCC ACTTCATTAT TGGACTTTCC   480
ACAGTTACCT TTACTCTGCC TTTATCCTTG TACCGAAATA TAGCAAAGCT TGGAAAGGTC   540
TCCCTCATCT CTACAGGTTT AACAACTCTG ATTCTTGGAA TTGTAATGGC AAGGGCAATT   600
TCACTGGGTC CACACATACC AAAAACAGAA GACGCTTGGG TATTTGCAAA GCCCAATGCC   660
ATTCAAGCGG TCGGGGTTAT GTCTTTTGCA TTTATTTGCC ACCATAACTC CTTCTTAGTT   720
TACAGTTCTC TAGAAGAACC CACAGTAGCT AAGTGGTCCC GCCTTATCCA TATGTCCATC   780
GTGATTTCTG TATTTATCTG TATATTCTTT GCTACATGTG GATACTTGAC ATTTACTGGC   840
TTCACCCAAG GGGACTTATT TGAAAATTAC TGCAGAAATG ATGACCTGGT AACATTTGGA   900
AGATTTTGTT ATGGTGTCAC TGTCATTTTG ACATACCCTA TGGAATGCTT TGTGACAAGA   960
GAGGTAATTG CCAATGTGTT TTTTGGTGGG AATCTTTCAT CGGTTTTCCA CATTGTTGTA  1020
ACAGTGATGG TCATCACTGT AGCCACGCTT GTGTCATTGC TGATTGATTG CCTCGGGATA  1080
GTTCTAGAAC TCAATGGTGT GCTCTGTGCA ACTCCCCTCA TTTTTATCAT TCCATCAGCC  1140
TGTTATCTGA AACTGTCTGA AGAACCAAGG ACACACTCCG ATAAGATTAT GTCTTGTGTC  1200
ATGCTTCCCA TTGGTGCTGT GGTGATGGTT TTTGGATTCG TCATGGCTAT TACAAATACT  1260
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CAAGACTGCA CCCATGGGCA GGAAATGTTC TACTGCTTTC CTGACAATTT CTCTCTCACA  1320
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TTTCAATGA
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Seq ID NO: 669 Protein sequence
Protein Accession #: Eos sequence

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1          11         21         31         41         51
|          |          |          |          |          |
MGYQRQEPVI PPQRDLDDRE TLVSEHEYKE KTCQSAALPN VVNSIIGSGI IGLPYSMKQA    60
GFPLGILLLF WVSYVTDFSL VLLIKGGALS GTDTYQSLVN KTFGFPGYLL LSVLQFLYPF   120
IAMISYNIIA GDTLSKVFQR IPGVDPENVF IGRHFIIGLS TVTFTLPLSL YRNIAKLGKV   180
SLISTGLTTL ILGIVMARAI SLGPHIPKTE DAWVFAKPNA IQAVGVMSFA FICHHNSFLV   240
YSSLEEPTVA KWSRLIHMSI VISVFICIFF ATCGYLTFTG FTQGDLFENY CRNDDLVTFG   300
RFCYGVTVIL TYPMECFVTR EVIANVFFGG NLSSVFHIVV TVMVITVATL VSLLIDCLGI   360
VLELNGVLCA TPLIFIIPSA CYLKLSEEPR THSDKIMSCV MLPIGAVVMV FGFVMAITNT   420
QDCTHGQEMF YCFPDNFSLT NTSESHVQQT TQLSTLNISI FQ
```

Seq ID NO: 670 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1284

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGGGCTACC AGAGGCAGGA GCCTGTCATC CCGCCGCAGA GAGGATTGCC TTATTCAATG    60
AAGCAAGCTG GGTTTCCTTT GGGAATATTG CTTTTATTCT GGGTTTCATA TGTTACAGAC   120
TTTTCCCTTG TTTTATTGAT AAAAGGAGGG GCCCTCTCTG GAACAGATAC CTACCAGTCT   180
TTGGTCAATA AAACTTTCGG CTTTCCAGGG TATCTGCTCC TCTCTGTTCT TCAGTTTTTG   240
TATCCTTTTA TAGCAATGAT AAGTTACAAT ATAATAGCTG GAGATACTTT GAGCAAAGTT   300
TTTCAAAGAA TCCCAGGAGT TGATCCTGAA AACGTGTTTA TTGGTCGCCA CTTCATTATT   360
GGACTTTCCA CAGTTACCTT TACTCTGCCT TTATCCTTGT ACCGAAATAT AGCAAAGCTT   420
GGAAAGGTCT CCCTCATCTC TACAGGTTTA ACAACTCTGA TTCTTGGAAT TGTAATGGCA   480
AGGGCAATTT CACTGGGTCC ACACATACCA AAAACAGAAG ACGCTTGGGT ATTTGCAAAG   540
CCCAATGCCA TTCAAGCGGT CGGGGTTATG TCTTTTGCAT TTATTTGCCA CCATAACTCC   600
TTCTTAGTTT ACAGTTCTCT AGAAGAACCC ACAGTAGCTA AGTGGTCCCG CCTTATCCAT   660
ATGTCCATCG TGATTTCTGT ATTTATCTGT ATATTCTTTG CTACATGTGG ATACTTGACA   720
TTTACTGGCT TCACCCAAGG GGACTTATTT GAAAATTACT GCAGAAATGA TGACCTGGTA   780
ACATTTGGAA GATTTTGTTA TGGTGTCACT GTCATTTTGA CATACCCTAT GGAATGCTTT   840
GTGACAAGAG AGGTAATTGC CAATGTGTTT TTTGGTGGGA ATCTTTCATC GGTTTTCCAC   900
ATTGTTGTAA CAGTGATGGT CATCACTGTA GCCACGCTTG TGTCATTGCT GATTGATTGC   960
CTCGGGATAG TTCTAGAACT CAATGGTGTG CTCTGTGCAA CTCCCCTCAT TTTTATCATT  1020
CCATCAGCCT GTTATCTGAA ACTGTCTGAA GAACCAAGGA CACACTCCGA TAAGATTATG  1080
TCTTGTGTCA TGCTTCCCAT TGGTGCTGTG GTGATGGTTT TTGGATTCGT CATGGCTATT  1140
ACAAATACTC AAGACTGCAC CCATGGGCAG GAAATGTTCT ACTGCTTTCC TGACAATTTC  1200
TCTCTCACAA ATACCTCAGA GTCTCATGTT CAGCAGACAA CACAACTTTC TACTTTAAAT  1260
ATTAGTATCT TTCAACTCGA GTAA
```

Seq ID NO: 671 Protein sequence
Protein Accession #: Eos sequence

```
1          11         21         31         41         51
|          |          |          |          |          |
MGYQRQEPVI PPQRGLPYSM KQAGFPLGIL LLFWVSYVTD FSLVLLIKGG ALSGTDTYQS    60
LVNKTFGFPG YLLLSVLQFL YPFIAMISYN IIAGDTLSKV FQRIPGVDPE NVFIGRHFII   120
GLSTVTFTLP LSLYRNIAKL GKVSLISTGL TTLILGIVMA RAISLGPHIP KTEDAWVFAK   180
PNAIQAVGVM SFAFICHHNS FLVYSSLEEP TVAKWSRLIH MSIVISVFIC IFFATCGYLT   240
FTGFTQGDLF ENYCRNDDLV TFGRFCYGVT VILTYPMECF VTREVIANVF FGGNLSSVFH   300
IVVTVMVITV ATLVSLLIDC LGIVLELNGV LCATPLIFII PSACYLKLSE EPRTHSDKIM   360
SCVMLPIGAV VMVFGFVMAI TNTQDCTHGQ EMFYCFPDNF SLTNTSESHV QQTTQLSTLN   420
ISIFQLE
```

Seq ID NO: 672 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1203

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGGGCTACC AGAGGCAGGA GCCTGTCATC CCGCCGCAGT TTTCCCTTGT TTTATTGATA    60
AAAGGAGGGG CCCTCTCTGG AACAGATACC TACCAGTCTT TGGTCAATAA AACTTTCGGC   120
TTTCCAGGGT ATCTGCTCCT CTCTGTTCTT CAGTTTTTGT ATCCTTTTAT AGCAATGATA   180
AGTTACAATA TAATAGCTGG AGATACTTTG AGCAAAGTTT TTCAAAGAAT CCCAGGAGTT   240
GATCCTGAAA ACGTGTTTAT TGGTCGCCAC TTCATTATTG GACTTTCCAC AGTTACCTTT   300
ACTCTGCCTT TATCCTTGTA CCGAAATATA GCAAAGCTTG GAAAGGTCTC CCTCATCTCT   360
ACAGGTTTAA CAACTCTGAT TCTTGGAATT GTAATGGCAA GGGCAATTTC ACTGGGTCCA   420
CACATACCAA AAACAGAAGA CGCTTGGGTA TTTGCAAAGC CCAATGCCAT TCAAGCGGTC   480
GGGGTTATGT CTTTTGCATT TATTTGCCAC CATAACTCCT TCTTAGTTTA CAGTTCTCTA   540
GAAGAACCCA CAGTAGCTAA GTGGTCCCGC CTTATCCATA TGTCCATCGT GATTTCTGTA   600
TTTATCTGTA TATTCTTTGC TACATGTGGA TACTTGACAT TTACTGGCTT CACCCAAGGG   660
GACTTATTTG AAAATTACTG CAGAAATGAT GACCTGGTAA CATTTGGAAG ATTTTGTTAT   720
GGTGTCACTG TCATTTTGAC ATACCCTATG GAATGCTTTG TGACAAGAGA GGTAATTGCC   780
AATGTGTTTT TTGGTGGGAA TCTTTCATCG GTTTTCCACA TTGTTGTAAC AGTGATGGTC   840
ATCACTGTAG CCACGCTTGT GTCATTGCTG ATTGATTGCC TCGGGATAGT TCTAGAACTC   900
AATGGTGTGC TCTGTGCAAC TCCCCTCATT TTTATCATTC CATCAGCCTG TTATCTGAAA   960
CTGTCTGAAG AACCAAGGAC ACACTCCGAT AAGATTATGT CTTGTGTCAT GCTTCCCATT  1020
GGTGCTGTGG TGATGGTTTT TGGATTCGTC ATGGCTATTA CAAATACTCA AGACTGCACC  1080
CATGGGCAGG AAATGTTCTA CTGCTTTCCT GACAATTTCT CTCTCACAAA TACCTCAGAG  1140
TCTCATGTTC AGCAGACAAC ACAACTTTCT ACTTTAAATA TTAGTATCTT TCAACTCGAG  1200
```

TAA

Seq ID NO: 673 Protein sequence
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MGYQRQEPVI PPQFSLVLLI KGGALSGTDT YQSLVNKTFG FPGYLLLSVL QFLYPFIAMI    60
SYNIIAGDTL SKVFQRIPGV DPENVFIGRH FIIGLSTVTF TLPLSLYRNI AKLGKVSLIS   120
TGLTTLILGI VMARAISLGP HIPKTEDAWV FAKPNAIQAV GVMSFAFICH HNSFLVYSSL   180
EEPTVAKWSR LIHMSIVISV FICIFFATCG YLTFTGFTQG DLFENYCRND DLVTFGRFCY   240
GVTVILTYPM ECFVTREVIA NVFFGGNLSS VFHIVVTVMV ITVATLVSLL IDCLGIVLEL   300
NGVLCATPLI FIIPSACYLK LSEEPRTHSD KIMSCVMLPI GAVVMVFGFV MAITNTQDCT   360
HGQEMFYCFP DNFSLTNTSE SHVQQTTQLS TLNISIFQLE
```

Seq ID NO: 674 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..1140

```
1           11          21          31          41          51
|           |           |           |           |           |
ATGGGCTACC AGAGGCAGGA GCCTGTCATC CCGCCGCAGG TCAATAAAAC TTTCGGCTTT    60
CCAGGGTATC TGCTCCTCTC TGTTCTTCAG TTTTTGTATC CTTTTATAGC AATGATAAGT   120
TACAATATAA TAGCTGGAGA TACTTTGAGC AAAGTTTTTC AAAGAATCCC AGGAGTTGAT   180
CCTGAAAACG TGTTTATTGG TCGCCACTTC ATTATTGGAC TTTCCACAGT TACCTTTACT   240
CTGCCTTTAT CCTTGTACCG AAATATAGCA AAGCTTGGAA AGGTCTCCCT CATCTCTACA   300
GGTTTAACAA CTCTGATTCT TGGAATTGTA ATGGCAAGGG CAATTTCACT GGGTCCACAC   360
ATACCAAAAA CAGAAGACGC TTGGGTATTT GCAAAGCCCA ATGCCATTCA AGCGGTCGGG   420
GTTATGTCTT TTGCATTTAT TTGCCACCAT AACTCCTTCT TAGTTTACAG TTCTCTAGAA   480
GAACCCACAG TAGCTAAGTG GTCCCGCCTT ATCCATATGT CCATCGTGAT TTCTGTATTT   540
ATCTGTATAT TCTTTGCTAC ATGTGGATAC TTGACATTTA CTGGCTTCAC CCAAGGGGAC   600
TTATTTGAAA ATTACTGCAG AAATGATGAC CTGGTAACAT TTGGAAGATT TTGTTATGGT   660
GTCACTGTCA TTTTGACATA CCCTATGGAA TGCTTTGTGA CAAGAGAGGT AATTGCCAAT   720
GTGTTTTTTG GTGGGAATCT TTCATCGGTT TTCCACATTG TTGTAACAGT GATGGTCATC   780
ACTGTAGCCA CGCTTGTGTC ATTGCTGATT GATTGCCTCG GGATAGTTCT AGAACTCAAT   840
GGTGTGCTCT GTGCAACTCC CCTCATTTTT ATCATTCCAT CAGCCTGTTA TCTGAAACTG   900
TCTGAAGAAC CAAGGACACA CTCCGATAAG ATTATGTCTT GTGTCATGCT TCCCATTGGT   960
GCTGTGGTGA TGGTTTTTGG ATTCGTCATG GCTATTACAA ATACTCAAGA CTGCACCCAT  1020
GGGCAGGAAA TGTTCTACTG CTTTCCTGAC AATTTCTCTC TCACAAATAC CTCAGAGTCT  1080
CATGTTCAGC AGACAACACA ACTTTCTACT TTAAATATTA GTATCTTTCA ACTCGAGTAA
```

Seq ID NO: 675 Protein sequence
Protein Accession #: Eos sequence

```
1           11          21          31          41          51
|           |           |           |           |           |
MGYQRQEPVI PPQVNKTFGF PGYLLLSVLQ FLYPFIAMIS YNIIAGDTLS KVFQRIPGVD    60
PENVFIGRHF IIGLSTVTFT LPLSLYRNIA KLGKVSLIST GLTTLILGIV MARAISLGPH   120
IPKTEDAWVF AKPNAIQAVG VMSFAFICHH NSFLVYSSLE EPTVAKWSRL IHMSIVISVF   180
ICIFFATCGY LTFTGFTQGD LFENYCRNDD LVTFGRFCYG VTVILTYPME CFVTREVIAN   240
VFFGGNLSSV FHIVVTVMVI TVATLVSLLI DCLGIVLELN GVLCATPLIF IIPSACYLKL   300
SEEPRTHSDK IMSCVMLPIG AVVMVFGFVM AITNTQDCTH GQEMFYCFPD NFSLTNTSES   360
HVQQTTQLST LNISIFQLE
```

Seq ID NO: 676 DNA sequence
Nucleic Acid Accession #: NM_006853.1
Coding sequence: 26..874

```
1           11          21          31          41          51
|           |           |           |           |           |
AGGAATCTGC GCTCGGGTTC CGCAGATGCA GAGGTTGAGG TGGCTGCGGG ACTGGAAGTC    60
ATCGGGCAGA GGTCTCACAG CAGCCAAGGA ACCTGGGGCC CGCTCCTCCC CCCTCCAGGC   120
CATGAGGATT CTGCAGTTAA TCCTGCTTGC TCTGGCAACA GGGCTTGTAG GGGGAGAGAC   180
CAGGATCATC AAGGGGTTCG AGTGCAAGCC TCACTCCCAG CCCTGGCAGG CAGCCCTGTT   240
CGAGAAGACG CGGCTACTCT GTGGGGCGAC GCTCATCGCC CCCAGATGGC TCCTGACAGC   300
AGCCCACTGC CTCAAGCCCC GCTACATAGT TCACCTGGGG CAGCACAACC TCCAGAAGGA   360
GGAGGGCTGT GAGCAGACCC GGACAGCCAC TGAGTCCTTC CCCCACCCCG GCTTCAACAA   420
CAGCCTCCCC AACAAAGACC ACCGCAATGA CATCATGCTG GTGAAGATGG CATCGCCAGT   480
CTCCATCACC TGGGCTGTGC GACCCCTCAC CCTCTCCTCA CGCTGTGTCA CTGCTGGCAC   540
CAGCTGCCTC ATTTCCGGCT GGGGCAGCAC GTCCAGCCCC CAGTTACGCC TGCCTCACAC   600
CTTGCGATGC GCCAACATCA CCATCATTGA GCACCAGAAG TGTGAGAACG CCTACCCCGG   660
CAACATCACA GACACCATGG TGTGTGCCAG CGTGCAGGAA GGGGGCAAGG ACTCCTGCCA   720
GGGTGACTCC GGGGGCCCTC TGGTCTGTAA CCAGTCTCTT CAAGGCATTA TCTCCTGGGG   780
CCAGGATCCG TGTGCGATCA CCCGAAAGCC TGGTGTCTAC ACGAAAGTCT GCAAATATGT   840
GGACTGGATC CAGGAGACGA TGAAGAACAA TTAGACTGGA CCCACCCACC ACAGCCCATC   900
ACCCTCCATT TCCACTTGGT GTTTGGTTCC TGTTCACTCT GTTAATAAGA AACCCTAAGC   960
CAAGACCCTC TACGAACATT CTTTGGGCCT CCTGGACTAC AGGAGATGCT GTCACTTAAT  1020
AATCAACCTG GGGTTCGAAA TCAGTGAGAC CTGGATTCAA ATTCTGCCTT GAAATATTGT  1080
GACTCTGGGA ATGACAACAC CTGGTTTGTT CTCTGTTGTA TCCCCAGCCC CAAAGACAGC  1140
TCCTGGCCAT ATATCAAGGT TTCAATAAAT ATTTGCTAAA TGAGTG
```

Seq ID NO: 677 Protein sequence
Protein Accession #: NP_006844.1

```
1           11          21          31          41          51
|           |           |           |           |           |
MRILQLILLA LATGLVGGET RIIKGFECKP HSQPWQAALF EKTRLLCGAT LIAPRWLLTA    60
```

```
AHCLKPRYIV HLGQHNLQKE EGCEQTRTAT ESFPHPGFNN SLPNKDHRND IMLVKMASPV   120
SITWAVRPLT LSSRCVTAGT SCLISGWGST SSPQLRLPHT LRCANITIIE HQKCENAYPG   180
NITDTMVCAS VQEGGKDSCQ GDSGGPLVCN QSLQGIISWG QDPCAITRKP GVYTKVCKYV   240
DWIQETMKNN
```

Seq ID NO: 678 DNA sequence
Nucleic Acid Accession #: Eos sequence
Coding sequence: 1..933

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGTGCAGCA ATGGACGGTG CATCCCGGGC GCCTGGCAGT GTGACGGGCT GCCTGACTGC    60
TTCGACAAGA GTGATGAGAA GGAGTGCCCC AAGGCTAAGT CGAAATGTGG CCCGACCTTC   120
TTCCCCTGTG CCAGCGGCAT CCATTGCATC ATTGGTCGCT TCCGGTGCAA TGGGTTTGAG   180
GACTGTCCCG ATGGCAGCGA TGAAGAGAAC TGCACAGCAA ACCCTCTGCT TTGCTCCACC   240
GCCCGCTACC ACTGCAAGAA CGGCCTCTGT ATTGACAAGA GCTTCATCTG CGATGGACAG   300
AATAACTGTC AAGACAACAG TGATGAGGAA AGCTGTGAAA GTTCTCAAGA ACCCGGCAGT   360
GGGCAGGTGT TTGTGACTTC AGAGAACCAA CTTGTGTATT ACCCCAGCAT CACCTATGCC   420
ATCATCGGCA GCTCCGTCAT TTTTGTGCTG GTGGTGGCCC TGCTGGCACT GGTCTTGCAC   480
CACCAGCGGA AGCGGAACAA CCTCATGACG CTGCCCGTGC ACCGGCTGCA GCACCCTGTG   540
CTGCTGTCCC GCCTGGTGGT CCTGGACCAC CCCCACCACT GCAACGTCAC CTACAACGTC   600
AATAATGGCA TCCAGTATGT GGCCAGCCAG GCGGAGCAGA ATGCGTCGGA AGTAGGCTCC   660
CCACCCTCCT ACTCCGAGGC CTTGCTGGAC CAGAGGCCTG CGTGGTATGA CCTTCCTCCA   720
CCGCCCTACT CTTCTGACAC GGAATCTCTG AACCAAGCCG ACCTGCCCCC CTACCGCTCC   780
CGGTCCGGGA GTGCCAACAG TGCCAGCTCC CAGGCAGCCA GCAGCCTCCT GAGCGTGGAA   840
GACACCAGCC ACAGCCCGGG GCAGCCTGGC CCCCAGGAGG GCACTGCTGA GCCCAGGGAC   900
TCTGAGCCCA GCCAGGGCAC TGAAGAAGTA TAA
```

Seq ID NO: 679 Protein sequence
Protein Accession #: Eos sequence

```
1          11         21         31         41         51
|          |          |          |          |          |
MCSNGRCIPG AWQCDGLPDC FDKSDEKECP KAKSKCGPTF FPCASGIHCI IGRFRCNGFE    60
DCPDGSDEEN CTANPLLCST ARYHCKNGLC IDKSFICDGQ NNCQDNSDEE SCESSQEPGS   120
GQVFVTSENQ LVYYPSITYA IIGSSVIFVL VVALLALVLH HQRKRNNLMT LPVHRLQHPV   180
LLSRLVVLDH PHHCNVTYNV NNGIQYVASQ AEQNASEVGS PPSYSEALLD QRPAWYDLPP   240
PPYSSDTESL NQADLPPYRS RSGSANSASS QAASSLLSVE DTSHSPGQPG PQEGTAEPRD   300
SEPSQGTEEV
```

Seq ID NO: 680 DNA sequence
Nucleic Acid Accession #: S78203.1
Coding sequence: 1..2190

```
1          11         21         31         41         51
|          |          |          |          |          |
ATGAATCCTT TCCAGAAAAA TGAGTCCAAG GAAACTCTTT TTTCACCTGT CTCCATTGAA    60
GAGGTACCAC CTCGACCACC TAGCCCTCCA AAGAAGCCAT CTCCGACAAT CTGTGGCTCC   120
AACTATCCAC TGAGCATTGC CTTCATTGTG GTGAATGAAT TCTGCGAGCG CTTTTCCTAT   180
TATGGAATGA AAGCTGTGCT GATCCTGTAT TTCCTGTATT TCCTGCACTG GAATGAAGAT   240
ACCTCCACAT CTATATACCA TGCCTTCAGC AGCCTCTGTT ATTTTACTCC CATCCTGGGA   300
GCAGCCATTG CTGACTCGTG GTTGGGAAAA TTCAAGACAA TCATCTATCT CTCCTTGGTG   360
TATGTGCTTG GCCATGTGAT CAAGTCCTTG GGTGCCTTAC CAATACTGGG AGGACAAGTG   420
GTACACACAG TCCTATCATT GATCGGCCTG AGTCTAATAG CTTTGGGGAC AGGAGGCATC   480
AAACCCTGTG TGGCAGCTTT TGGTGGAGAC CAGTTTGAAG AAAAACATGC AGAGGAACGG   540
ACTAGATACT TCTCAGTCTT CTACCTGTCC ATCAATGCAG GGAGCTTGAT TTCTACATTT   600
ATCACACCCA TGCTGAGAGG AGATGTGCAA TGTTTTGGAG AAGACTGCTA TGCATTGGCT   660
TTTGGAGTTC CAGGACTGCT CATGGTAATT GCACTTGTTG TGTTTGCAAT GGGAAGCAAA   720
ATATACAATA AACCACCCCC TGAAGGAAAC ATAGTGGCTC AAGTTTTCAA ATGTATCTGG   780
TTTGCTATTT CCAATCGTTT CAAGAACCGT TCTGGAGACA TTCCAAAGCG ACAGCACTGG   840
CTAGACTGGG CAGCTGAGAA ATATCCAAAG CAGCTCATTA TGGATGTAAA GGCACTGACC   900
AGGGTACTAT TCCTTTATAT CCCATTGCCC ATGTTCTGGG CTCTTTTGGA TCAGCAGGGT   960
TCACGATGGA CTTTGCAAGC CATCAGGATG AATAGGAATT TGGGGTTTTT TGTGCTTCAG  1020
CCGGACCAGA TGCAGGTTCT AAATCCCTTT CTGGTTCTTA TCTTCATCCC GTTGTTTGAC  1080
TTTGTCATTT ATCGTCTGGT CTCCAAGTGT GGAATTAACT TCTCATCACT TAGGAAAATG  1140
GCTGTTGGTA TGATCCTAGC GTGCCTGGCA TTTGCAGTTG CGGCAGCTGT AGAGATAAAA  1200
ATAAATGAAA TGGCCCCAGC CCAGTCAGGT CCCCAGGAGG TTTTCCTACA AGTCTTGAAT  1260
CTGGCAGATG ATGAGGTGAA GGTGACAGTG GTGGGAAATG AAAACAATTC TCTGTTGATA  1320
GAGTCCATCA AATCCTTTCA GAAAACACCA CACTATTCCA AACTGCACCT GAAAACAAAA  1380
AGCCAGGATT TTCACTTCCA CCTGAAATAT CACAATTTGT CTCTCTACAC TGAGCATTCT  1440
GTGCAGGAGA AGAACTGGTA CAGTCTTGTC ATTCGTGAAG ATGGGAACAG TATCTCCAGC  1500
ATGATGGTAA AGGATACAGA AAGCAAAACA ACCAATGGGA TGACAACCGT GAGGTTTGTT  1560
AACACTTTGC ATAAAGATGT CAACATCTCC CTGAGTACAG ATACCTCTCT CAATGTTGGT  1620
GAAGACTATG GTGTGTCTGC TTATAGAACT GTGCAAAGAG GAGAATACCC TGCAGTGCAC  1680
TGTAGAACAG AAGATAAGAA CTTTTCTCTG AATTTGGGTC TTCTAGACTT TGGTGCAGCA  1740
TATCTGTTTG TTATTACTAA TAACACCAAT CAGGGTCTTC AGGCCTGGAA GATTGAAGAC  1800
ATTCCAGCCA ACAAAATGTC CATTGCGTGG CAGCTACCAC AATATGCCCT GGTTACAGCT  1860
GGGGAGGTCA TGTTCTCTGT CACAGGTCTT GAGTTTTCTT ATTCTCAGGC TCCCTCTAGC  1920
ATGAAATCTG TGCTCCAGGC AGCTTGGCTA TTGACAATTG CAGTTGGGAA TATCATCGTG  1980
CTTGTTGTGG CACAGTTCAG TGGCCTGGTA CAGTGGGCCG AATTCATTTT GTTTTCCTGC  2040
CTCCTGCTGG TGATCTGCCT GATCTTCTCC ATCATGGGCT ACTACTATGT TCCTGTAAAG  2100
ACAGAGGATA TGCGGGGTCC AGCAGATAAG CACATTCCTC ACATCCAGGG GAACATGATC  2160
AAACTAGAGA CCAAGAAGAC AAAACTCTGA
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Seq ID NO: 681 Protein sequence
Protein Accession #: AAB34388.1

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1          11         21         31         41         51
|          |          |          |          |          |
MNPFQKNESK ETLFSPVSIE EVPPRPPSPP KKPSPTICGS NYPLSIAFIV VNEFCERFSY    60
YGMKAVLILY FLYFLHWNED TSTSIYHAFS SLCYFTPILG AAIADSWLGK FKTIIYLSLV   120
YVLGHVIKSL GALPILGGQV VHTVLSLIGL SLIALGTGGI KPCVAAFGGD QFEEKHAEER   180
TRYFSVFYLS INAGSLISTF ITPMLRGDVQ CFGEDCYALA FGVPGLLMVI ALVVFAMGSK   240
IYNKPPPEGN IVAQVFKCIW FAISNRFKNR SGDIPKRQHW LDWAAEKYPK QLIMDVKALT   300
RVLFLYIPLP MFWALLDQQG SRWTLQAIRM NRNLGFFVLQ PDQMQVLNPF LVLIFIPLFD   360
FVIYRLVSKC GINFSSLRKM AVGMILACLA FAVAAAVEIK INEMAPAQSG PQEVFLQVLN   420
LADDEVKVTV VGNENNSLLI ESIKSFQKTP HYSKLHLKTK SQDFHFHLKY HNLSLYTEHS   480
VQEKNWYSLV IREDGNSISS MMVKDTESKT TNGMTTVRFV NTLHKDVNIS LSTDTSLNVG   540
EDYGVSAYRT VQRGEYPAVH CRTEDKNFSL NLGLLDFGAA YLFVITNNTN QGLQAWKIED   600
IPANKMSIAW QLPQYALVTA GEVMFSVTGL EFSYSQAPSS MKSVLQAAWL LTIAVGNIIV   660
LVVAQFSGLV QWAEFILFSC LLLVICLIFS IMGYYYVPVK TEDMRGPADK HIPHIQGNMI   720
KLETKKTKL
```

Seq ID NO: 682 DNA sequence
Nucleic Acid Accession #: NM_016077.1
Coding sequence: 128..667

```
1          11         21         31         41         51
|          |          |          |          |          |
TCGCTTTGTG ATTCTTGATC CGGAACTTTG TCACCCAGGA ACCCCGGAAG AGGTAGCTCA    60
CGCGATAGAA ACGTGTTCGC TTGCCCAGAA GAAGGGAAGG CGCGAGTGAG GAAAGGAGGT   120
ACTGTAGATG CCCTCCAAAT CCTTGGTTAT GGAATATTTG GCTCATCCCA GTACACTCGG   180
CTTGGCTGTT GGAGTTGCTT GTGGCATGTG CCTGGGCTGG AGCCTTCGAG TATGCTTTGG   240
GATGCTCCCC AAAAGCAAGA CGAGCAAGAC ACACACAGAT ACTGAAAGTG AAGCAAGCAT   300
CTTGGGAGAC AGCGGGGAGT ACAAGATGAT TCTTGTGGTT CGAAATGACT TAAAGATGGG   360
AAAAGGGAAA GTGGCTGCCC AGTGCTCTCA TGCTGCTGTT TCAGCCTACA AGCAGATTCA   420
AAGAAGAAAT CCTGAAATGC TCAAACAATG GGAATACTGT GGCCAGCCCA AGGTGGTGGT   480
CAAAGCTCCT GATGAAGAAA CCCTGATTGC ATTATTGGCC CATGCAAAAA TGCTGGGACT   540
GACTGTAAGT TTAATTCAAG ATGCTGGACG TACTCAGATT GCACCAGGCT CTCAAACTGT   600
CCTAGGGATT GGGCCAGGAC CAGCAGACCT AATTGACAAA GTCACTGGTC ACCTAAAACT   660
TTACTAGGTG GACTTTGATA TGACAACAAC CCCTCCATCA CAAGTGTTTG AAGCCTGTCA   720
GATTCTAACA ACAAAAGCTG AATTTCTTCA CCCAACTTAA ATGTTCTTGA GATGAAAATA   780
AAACCTATTC CCATGTTCTA AAAAAA
```

Seq ID NO: 683 Protein sequence
Protein Accession #: NP_057161.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MPSKSLVMEY LAHPSTLGLA VGVACGMCLG WSLRVCFGML PKSKTSKTHT DTESEASILG    60
DSGEYKMILV VRNDLKMGKG KVAAQCSHAA VSAYKQIQRR NPEMLKQWEY CGQPKVVVKA   120
PDEETLIALL AHAKMLGLTV SLIQDAGRTQ IAPGSQTVLG IGPGPADLID KVTGHLKLY
```

Seq ID NO: 684 DNA sequence
Nucleic Acid Accession #: NM_004864.1
Coding sequence: 26..952

```
1          11         21         31         41         51
|          |          |          |          |          |
CGGAACGAGG GCAACCTGCA CAGCCATGCC CGGGCAAGAA CTCAGGACGG TGAATGGCTC    60
TCAGATGCTC CTGGTGTTGC TGGTGCTCTC GTGGCTGCCG CATGGGGGCG CCCTGTCTCT   120
GGCCGAGGCG AGCCGCGCAA GTTTCCCGGG ACCCTCAGAG TTGCACTCCG AAGACTCCAG   180
ATTCCGAGAG TTGCGGAAAC GCTACGAGGA CCTGCTAACC AGGCTGCGGG CCAACCAGAG   240
CTGGGAAGAT TCGAACACCG ACCTCGTCCC GGCCCCTGCA GTCCGGATAC TCACGCCAGA   300
AGTGCGGCTG GGATCCGGCG GCCACCTGCA CCTGCGTATC TCTCGGGCCG CCCTTCCCGA   360
GGGGCTCCCC GAGGCCTCCC GCCTTCACCG GGCTCTGTTC CGGCTGTCCC CGACGGCGTC   420
AAGGTCGTGG GACGTGACAC GACCGCTGCG GCGTCAGCTC AGCCTTGCAA GACCCCAAGC   480
GCCCGCGCTG CACCTGCGAC TGTCGCCGCC GCCGTCGCAG TCGGACCAAC TGCTGGCAGA   540
ATCTTCGTCC GCACGGCCCC AGCTGGAGTT GCACTTGCGG CCGCAAGCCG CCAGGGGGCG   600
CCGCAGAGCG CGTGCGCGCA ACGGGGACGA CTGTCCGCTC GGGCCCGGGC GTTGCTGCCG   660
TCTGCACACG GTCCGCGCGT CGCTGGAAGA CCTGGGCTGG GCCGATTGGG TGCTGTCGCC   720
ACGGGAGGTG CAAGTGACCA TGTGCATCGG CGCGTGCCCG AGCCAGTTCC GGGCGGCAAA   780
CATGCACGCG CAGATCAAGA CGAGCCTGCA CCGCCTGAAG CCCGACACGG AGCCAGCGCC   840
CTGCTGCGTG CCCGCCAGCT ACAATCCCAT GGTGCTCATT CAAAAGACCG ACACCGGGGT   900
GTCGCTCCAG ACCTATGATG ACTTGTTAGC CAAAGACTGC CACTGCATAT GAGCAGTCCT   960
GGTCCTTCCA CTGTGCACCT GCGCGGGGGA GGCGACCTCA GTTGTCCTGC CCTGTGGAAT  1020
GGGCTCAAGG TTCCTGAGAC ACCCGATTCC TGCCCAAACA GCTGTATTTA TATAAGTCTG  1080
TTATTTATTA TTAATTTATT GGGGTGACCT TCTTGGGGAC TCGGGGGCTG GTCTGATGGA  1140
ACTGTGTATT TATTTAAAAC TCTGGTGATA AAAATAAAGC TGTCTGAACT GTTAAAAAAA  1200
AAAA
```

Seq ID NO: 685 Protein sequence
Protein Accession #: NP_004855.1

```
1          11         21         31         41         51
|          |          |          |          |          |
MPGQELRTVN GSQMLLVLLV LSWLPHGGAL SLAEASRASF PGPSELHSED SRFRELRKRY    60
EDLLTRLRAN QSWEDSNTDL VPAPAVRILT PEVRLGSGGH LHLRISRAAL PEGLPEASRL   120
HRALFRLSPT ASRSWDVTRP LRRQLSLARP QAPALHLRLS PPPSQSDQLL AESSSARPQL   180
ELHLRPQAAR GRRRARARNG DDCPLGPGRC CRLHTVRASL EDLGWADWVL SPREVQVTMC   240
IGACPSQFRA ANMHAQIKTS LHRLKPDTEP APCCVPASYN PMVLIQKTDT GVSLQTYDDL   300
LAKDCHCI
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Seq ID NO: 686 DNA sequence

Nucleic Acid Accession #: NM_002423.2
Coding sequence: 48..851

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1           11          21          31          41          51
|           |           |           |           |           |
ACCAAATCAA CCATAGGTCC AAGAACAATT GTCTCTGGAC GGCAGCTATG CGACTCACCG    60
TGCTGTGTGC TGTGTGCCTG CTGCCTGGCA GCCTGGCCCT GCCGCTGCCT CAGGAGGCGG   120
GAGGCATGAG TGAGCTACAG TGGGAACAGG CTCAGGACTA TCTCAAGAGA TTTTATCTCT   180
ATGACTCAGA AACAAAAAAT GCCAACAGTT TAGAAGCCAA ACTCAAGGAG ATGCAAAAAT   240
TCTTTGGCCT ACCTATAACT GGAATGTTAA ACTCCCGCGT CATAGAAATA ATGCAGAAGC   300
CCAGATGTGG AGTGCCAGAT GTTGCAGAAT ACTCACTATT TCCAAATAGC CCAAAATGGA   360
CTTCCAAAGT GGTCACCTAC AGGATCGTAT CATATACTCG AGACTTACCG CATATTACAG   420
TGGATCGATT AGTGTCAAAG GCTTTAAACA TGTGGGGCAA AGAGATCCCC CTGCATTTCA   480
GGAAAGTTGT ATGGGGAACT GCTGACATCA TGATTGGCTT TGCGCGAGGA GCTCATGGGG   540
ACTCCTACCC ATTTGATGGG CCAGGAAACA CGCTGGCTCA TGCCTTTGCG CCTGGGACAG   600
GTCTCGGAGG AGATGCTCAC TTCGATGAGG ATGAACGCTG GACGGATGGT AGCAGTCTAG   660
GGATTAACTT CCTGTATGCT GCAACTCATG AACTTGGCCA TTCTTTGGGT ATGGGACATT   720
CCTCTGATCC TAATGCAGTG ATGTATCCAA CCTATGGAAA TGGAGATCCC CAAAATTTTA   780
AACTTTCCCA GGATGATATT AAAGGCATTC AGAAACTATA TGGAAAGAGA AGTAATTCAA   840
GAAAGAAATA GAAACTTCAG GCAGAACATC CATTCATTCA TTCATTGGAT TGTATATCAT   900
TGTTGCACAA TCAGAATTGA TAAGCACTGT TCCTCCACTC CATTTAGCAA TTATGTCACC   960
CTTTTTTATT GCAGTTGGTT TTTGAATGTC TTTCACTCCT TTTATTGGTT AAACTCCTTT  1020
ATGGTGTGAC TGTGTCTTAT TCCATCTATG AGCTTTGTCA GTGCGCGTAG ATGTCAATAA  1080
ATGTTACATA CACAAATAAA TAAAATGTTT ATTCCATGGT AAATTTA
```

Seq ID NO: 687 Protein sequence
Protein Accession #: NP_002414.1

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1           11          21          31          41          51
|           |           |           |           |           |
MRLTVLCAVC LLPGSLALPL PQEAGGMSEL QWEQAQDYLK RFYLYDSETK NANSLEAKLK    60
EMQKFFGLPI TGMLNSRVIE IMQKPRCGVP DVAEYSLFPN SPKWTSKVVT YRIVSYTRDL   120
PHITVDRLVS KALNMWGKEI PLHFRKVVWG TADIMIGFAR GAHGDSYPFD GPGNTLAHAF   180
APGTGLGGDA HFDEDERWTD GSSLGINFLY AATHELGHSL GMGHSSDPNA VMYPTYGNGD   240
PQNFKLSQDD IKGIQKLYGK RSNSRKK
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Seq ID NO: 688 DNA sequence
Nucleic Acid Accession #: NM_005221.3
Coding sequence: 1..870

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1           11          21          31          41          51
|           |           |           |           |           |
ATGACAGGAG TGTTTGACAG AAGGGTCCCC AGCATCCGAT CCGGCGACTT CCAAGCTCCG    60
TTCCAGACGT CCGCAGCTAT GCACCATCCG TCTCAGGAAT CGCCAACTTT GCCCGAGTCT   120
TCAGCTACCG ATTCTGACTA CTACAGCCCT ACGGGGGGAG CCCCGCACGG CTACTGCTCT   180
CCTACCTCGG CTTCCTATGG CAAAGCTCTC AACCCCTACC AGTATCAGTA TCACGGCGTG   240
AACGGCTCCG CCGGGAGCTA CCCAGCCAAA GCTTATGCCG ACTATAGCTA CGCTAGCTCC   300
TACCACCAGT ACGGCGGCGC CTACAACCGC GTCCCAAGCG CCACCAACCA GCCAGAGAAA   360
GAAGTGACCG AGCCCGAGGT GAGAATGGTG AATGGCAAAC CAAAGAAAGT TCGTAAACCC   420
AGGACTATTT ATTCCAGCTT TCAGCTGGCC GCATTACAGA GAAGGTTTCA GAAGACTCAG   480
TACCTCGCCT TGCCGGAACG CGCCGAGCTG GCCGCCTCGC TGGGATTGAC ACAAACACAG   540
GTGAAAATCT GGTTTCAGAA CAAAAGATCC AAGATCAAGA AGATCATGAA AAACGGGGAG   600
ATGCCCCCGG AGCACAGTCC CAGCTCCAGC GACCCAATGG CGTGTAACTC GCCGCAGTCT   660
CCAGCGGTGT GGGAGCCCCA GGGCTCGTCC CGCTCGCTCA GCCACCACCC TCATGCCCAC   720
CCTCCGACCT CCAACCAGTC CCCAGCGTCC AGCTACCTGG AGAACTCTGC ATCCTGGTAC   780
ACAAGTGCAG CCAGCTCAAT CAATTCCCAC CTGCCGCCGC CGGGCTCCTT ACAGCACCCG   840
CTGGCGCTGG CCTCCGGGAC ACTCTATTAG
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Seq ID NO: 689 Protein sequence
Protein Accession #: NP_005212.1

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1           11          21          31          41          51
|           |           |           |           |           |
MTGVFDRRVP SIRSGDFQAP FQTSAAMHHP SQESPTLPES SATDSDYYSP TGGAPHGYCS    60
PTSASYGKAL NPYQYQYHGV NGSAGSYPAK AYADYSYASS YHQYGGAYNR VPSATNQPEK   120
EVTEPEVRMV NGKPKKVRKP RTIYSSFQLA ALQRRFQKTQ YLALPERAEL AASLGLTQTQ   180
VKIWFQNKRS KIKKIMKNGE MPPEHSPSSS DPMACNSPQS PAVWEPQGSS RSLSHHPHAH   240
PPTSNQSPAS SYLENSASWY TSAASSINSH LPPPGSLQHP LALASGTLY
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It is understood that the examples described above in no way serve to limit the true scope of this invention, but rather are presented for illustrative purposes. All publications, sequences of accession numbers, and patent applications cited in this specification are herein incorporated by reference as if each individual publication or patent application were specifically and individually indicated to be incorporated by reference.

WHAT IS CLAIMED IS:

1. A method of detecting a lung cancer-associated transcript in a cell from a patient, the method comprising contacting a biological sample from the patient with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16.

2. The method of claim 1, wherein the polynucleotide selectively hybridizes to a sequence at least 95% identical to a sequence as shown in Tables 1A-16.

3. The method of claim 1, wherein the biological sample is a tissue sample.

4. The method of claim 1, wherein the biological sample comprises isolated nucleic acids.

5. The method of claim 4, wherein the nucleic acids are mRNA.

6. The method of claim 4, further comprising the step of amplifying nucleic acids before the step of contacting the biological sample with the polynucleotide.

7. The method of claim 1, wherein the polynucleotide comprises a sequence as shown in Tables 1A-16.

8. The method of claim 1, wherein the polynucleotide is labeled.

9. The method of claim 8, wherein the label is a fluorescent label.

10. The method of claim 1, wherein the polynucleotide is immobilized on a solid surface.

11. The method of claim 1, wherein the patient is undergoing a therapeutic regimen to treat lung cancer.

12. The method of claim 1, wherein the patient is suspected of having lung cancer.

13. A method of monitoring the efficacy of a therapeutic treatment of lung cancer, the method comprising the steps of:

(i) providing a biological sample from a patient undergoing the therapeutic treatment; and

(ii) determining the level of a lung cancer-associated transcript in the biological sample by contacting the biological sample with a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16, thereby monitoring the efficacy of the therapy.

14. The method of claim 13, further comprising the step of: (iii) comparing the level of the lung cancer-associated transcript to a level of the lung cancer-associated transcript in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

15. The method of claim 13, wherein the patient is a human.

16. A method of monitoring the efficacy of a therapeutic treatment of lung cancer, the method comprising the steps of:

(i) providing a biological sample from a patient undergoing the therapeutic treatment; and

(ii) determining the level of a lung cancer-associated antibody in the biological sample by contacting the biological sample with a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16, wherein the polypeptide specifically binds to the lung cancer-associated antibody, thereby monitoring the efficacy of the therapy.

17. The method of claim 16, further comprising the step of: (iii) comparing the level of the lung cancer-associated antibody to a level of the lung cancer-associated antibody in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

18. The method of claim 16, wherein the patient is a human.

19. A method of monitoring the efficacy of a therapeutic treatment of lung cancer, the method comprising the steps of:

(i) providing a biological sample from a patient undergoing the therapeutic treatment; and

(ii) determining the level of a lung cancer-associated polypeptide in the biological sample by contacting the biological sample with an antibody, wherein the antibody specifically binds to a polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16, thereby monitoring the efficacy of the therapy.

20. The method of claim 19, further comprising the step of: (iii) comparing the level of the lung cancer-associated polypeptide to a level of the lung cancer-associated polypeptide in a biological sample from the patient prior to, or earlier in, the therapeutic treatment.

21. The method of claim 19, wherein the patient is a human.

22. An isolated nucleic acid molecule consisting of a polynucleotide sequence as shown in Tables 1A-16.

23. The nucleic acid molecule of claim 22, which is labeled.

24. The nucleic acid of claim 23, wherein the label is a fluorescent label

25. An expression vector comprising the nucleic acid of claim 22.

26. A host cell comprising the expression vector of claim 25.

27. An isolated polypeptide which is encoded by a nucleic acid molecule having polynucleotide sequence as shown in Tables 1A-16.

28. An antibody that specifically binds a polypeptide of claim 27.

29. The antibody of claim 28, further conjugated to an effector component.

30. The antibody of claim 29, wherein the effector component is a fluorescent label.

31. The antibody of claim 29, wherein the effector component is a radioisotope or a cytotoxic chemical.

32. The antibody of claim 29, which is an antibody fragment.

33. The antibody of claim 29, which is a humanized antibody

34. A method of detecting a lung cancer cell in a biological sample from a patient, the method comprising contacting the biological sample with an antibody of claim 28.

35. The method of claim 34, wherein the antibody is further conjugated to an effector component.

36. The method of claim 35, wherein the effector component is a fluorescent label.

37. A method of detecting antibodies specific to lung cancer in a patient, the method comprising contacting a biological sample from the patient with a polypeptide encoded by a nucleic acid comprises a sequence from Tables 1A-16.

38. A method for identifying a compound that modulates a lung cancer-associated polypeptide, the method comprising the steps of:

(i) contacting the compound with a lung cancer-associated polypeptide, the polypeptide encoded by a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16; and

(ii) determining the functional effect of the compound upon the polypeptide.

39. The method of claim 38, wherein the functional effect is a physical effect.

40. The method of claim 38, wherein the functional effect is a chemical effect.

41. The method of claim 38, wherein the polypeptide is expressed in a eukaryotic host cell or cell membrane.

42. The method of claim 38, wherein the functional effect is determined by measuring ligand binding to the polypeptide.

43. The method of claim 38, wherein the polypeptide is recombinant.

44. A method of inhibiting proliferation of a lung cancer-associated cell to treat lung cancer in a patient, the method comprising the step of administering to the subject a therapeutically effective amount of a compound identified using the method of claim 38.

45. The method of claim 44, wherein the compound is an antibody.

46. The method of claim 45, wherein the patient is a human.

47. A drug screening assay comprising the steps of

(i) administering a test compound to a mammal having lung cancer or a cell isolated therefrom;

(ii) comparing the level of gene expression of a polynucleotide that selectively hybridizes to a sequence at least 80% identical to a sequence as shown in Tables 1A-16 in a treated cell or mammal with the level of gene expression of the polynucleotide in a control cell or mammal, wherein a test compound that modulates the level of expression of the polynucleotide is a candidate for the treatment of lung cancer.

48. The assay of claim 47, wherein the control is a mammal with lung cancer or a cell therefrom that has not been treated with the test compound.

49. The assay of claim 47, wherein the control is a normal cell or mammal.

50. A method for treating a mammal having lung cancer comprising administering a compound identified by the assay of claim 47.

51. A pharmaceutiPcal composition for treating a mammal having lung cancer, the composition comprising a compound identified by the assay of claim 47 and a physiologically acceptable excipient.